

Figure 1

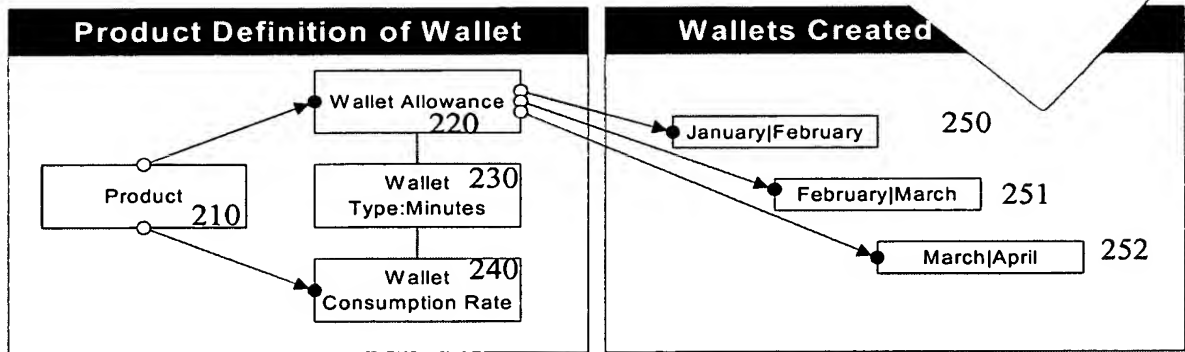


Figure 2

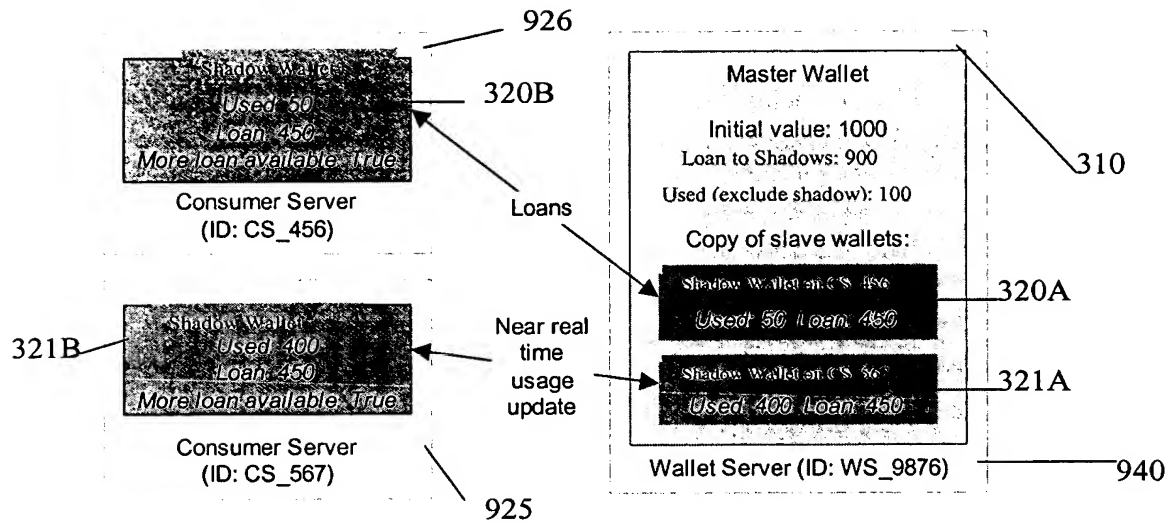
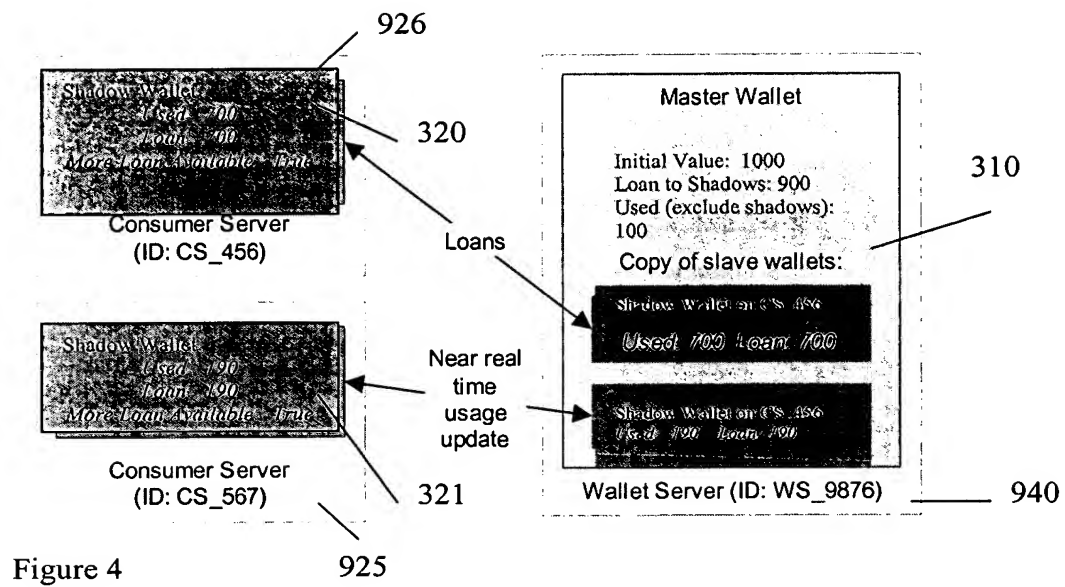


Figure 3



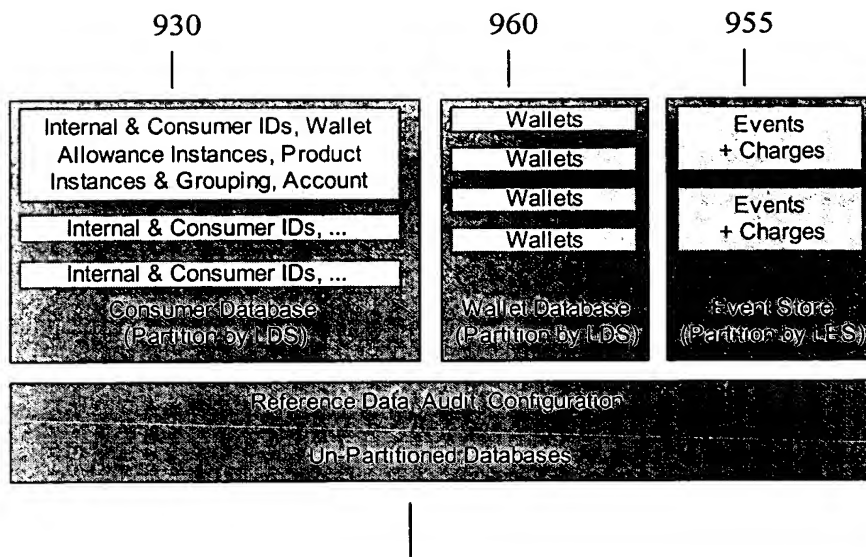


Figure 5

950 & 960

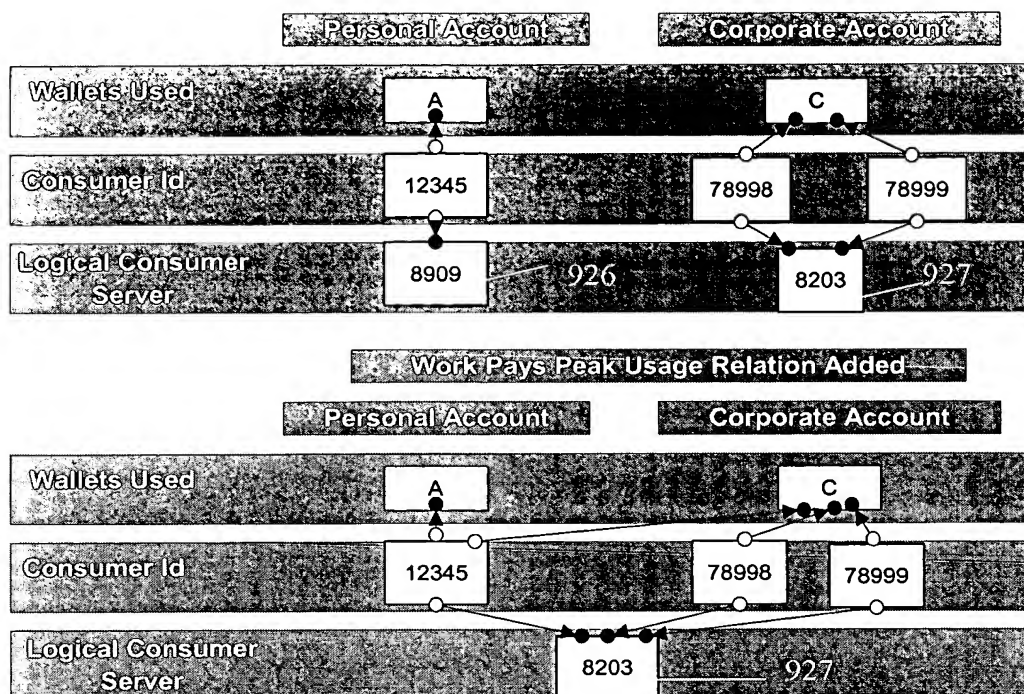


Figure 6

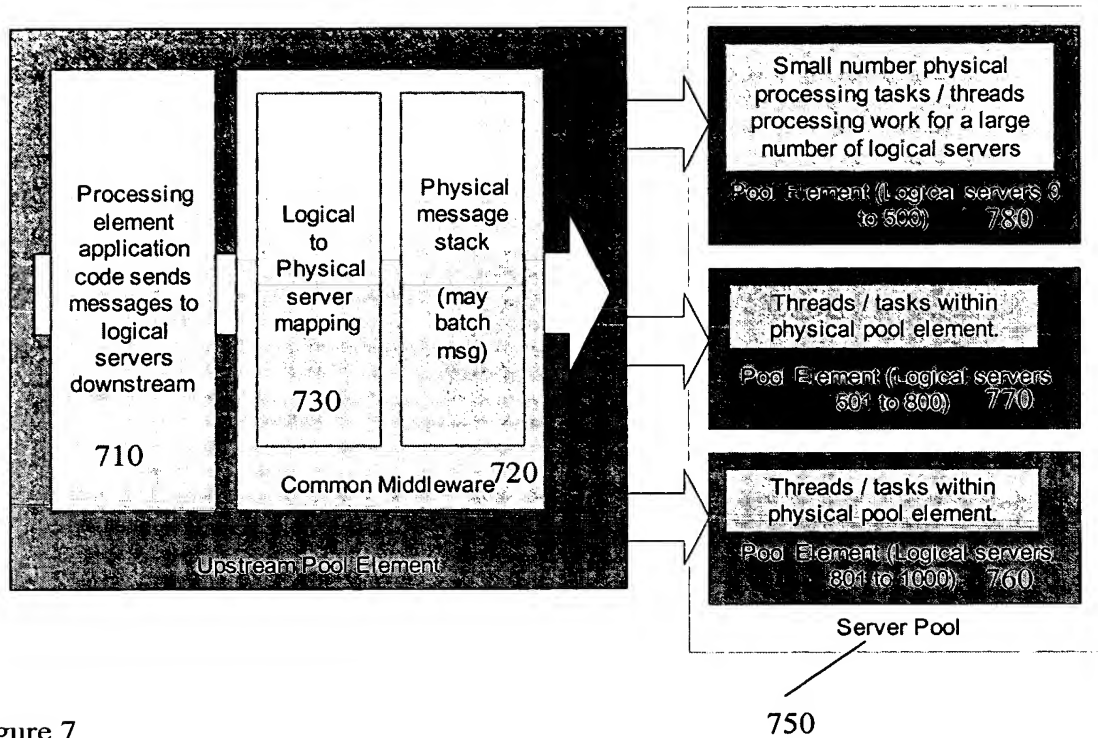
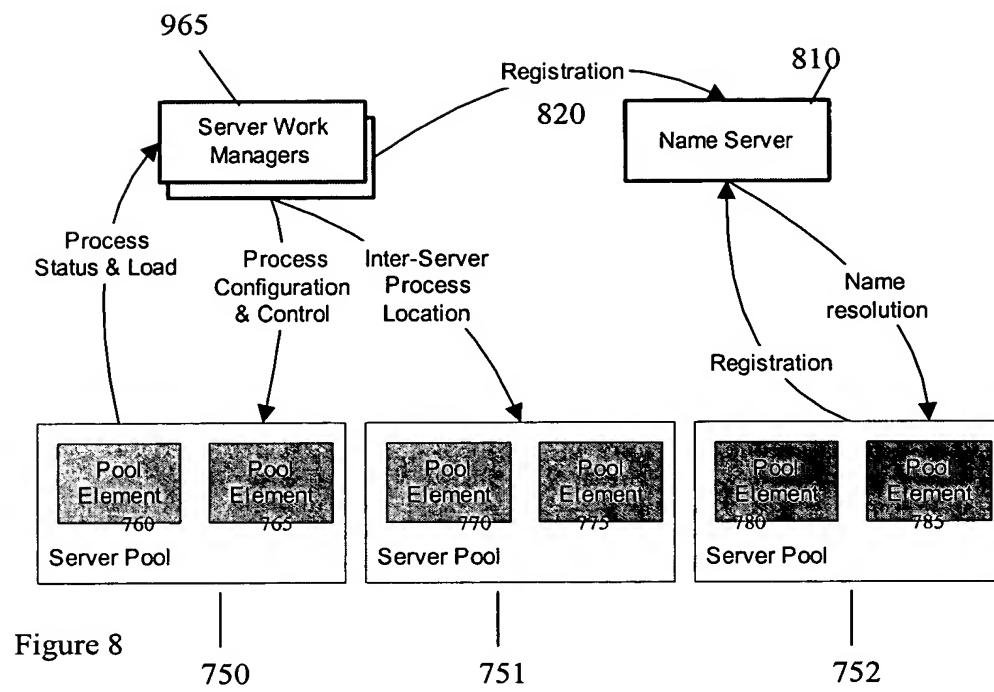


Figure 7



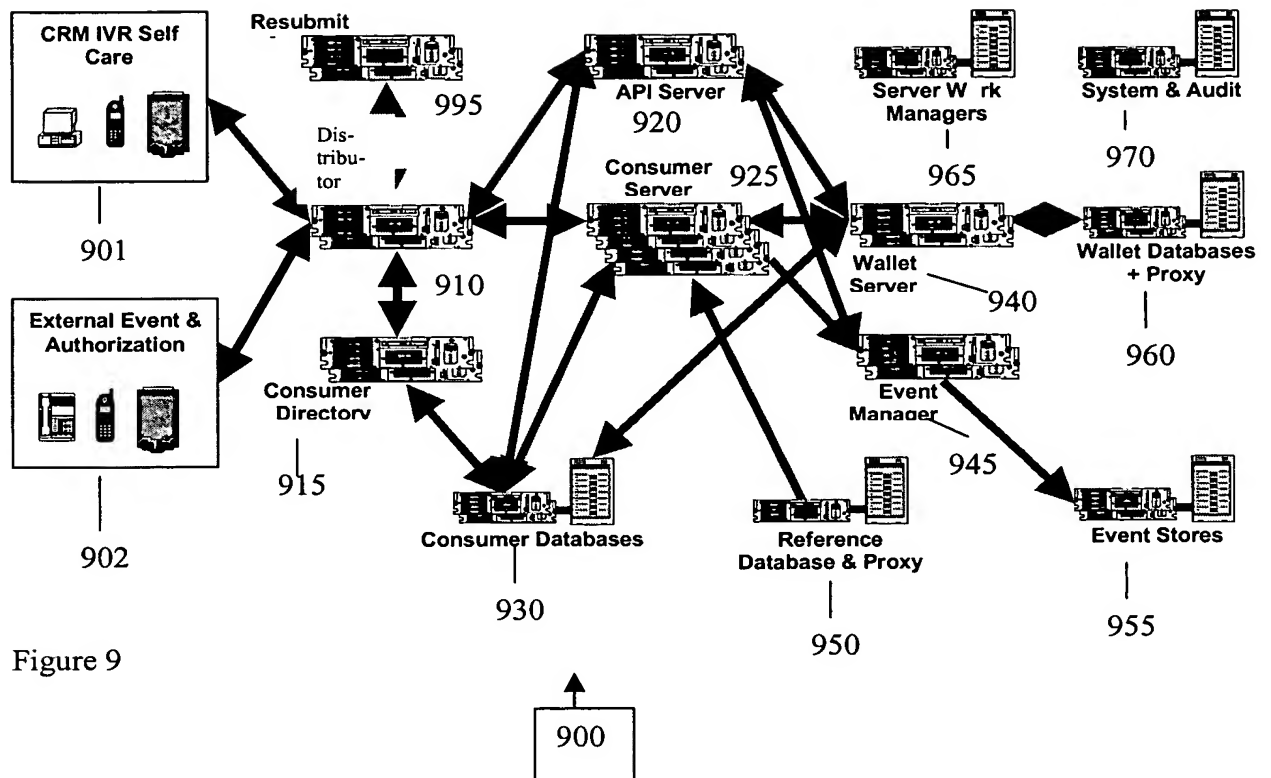


Figure 9

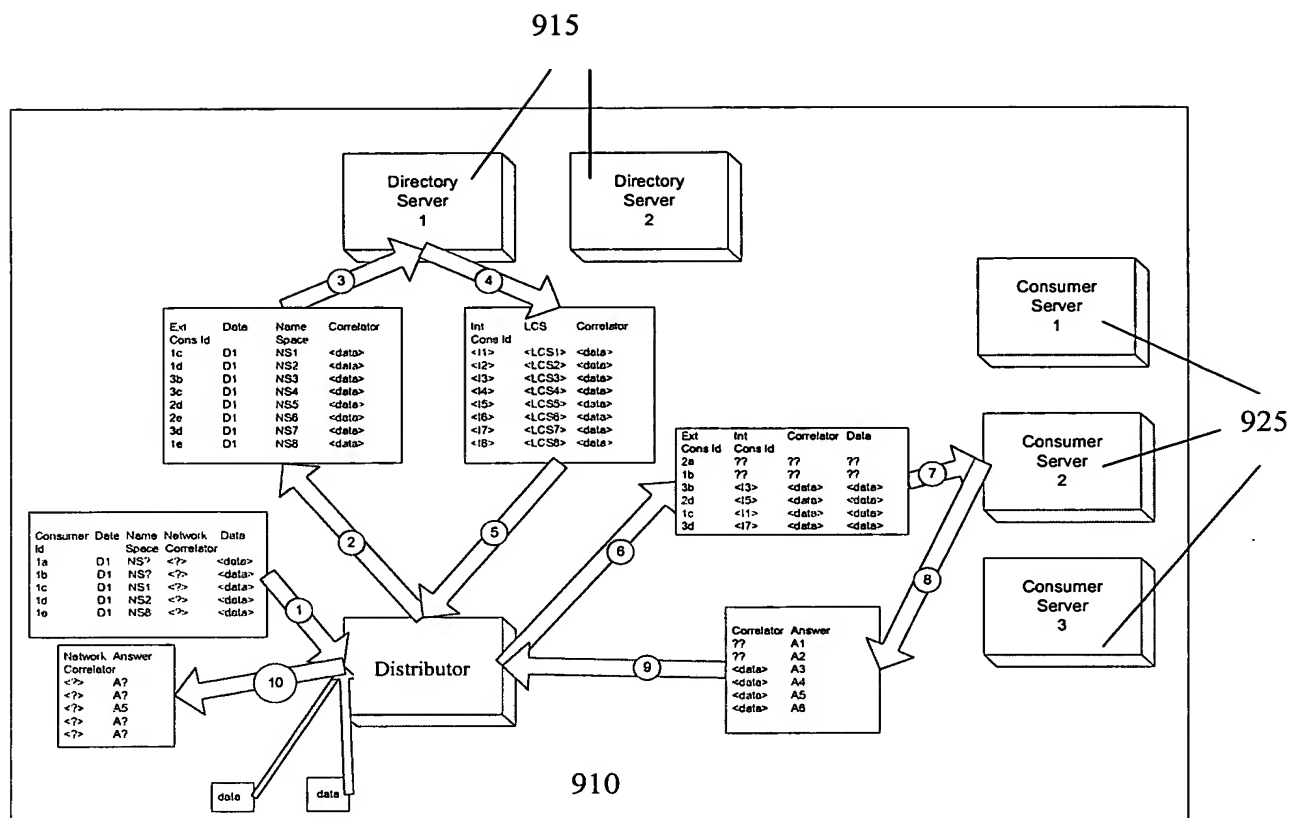


Figure 10

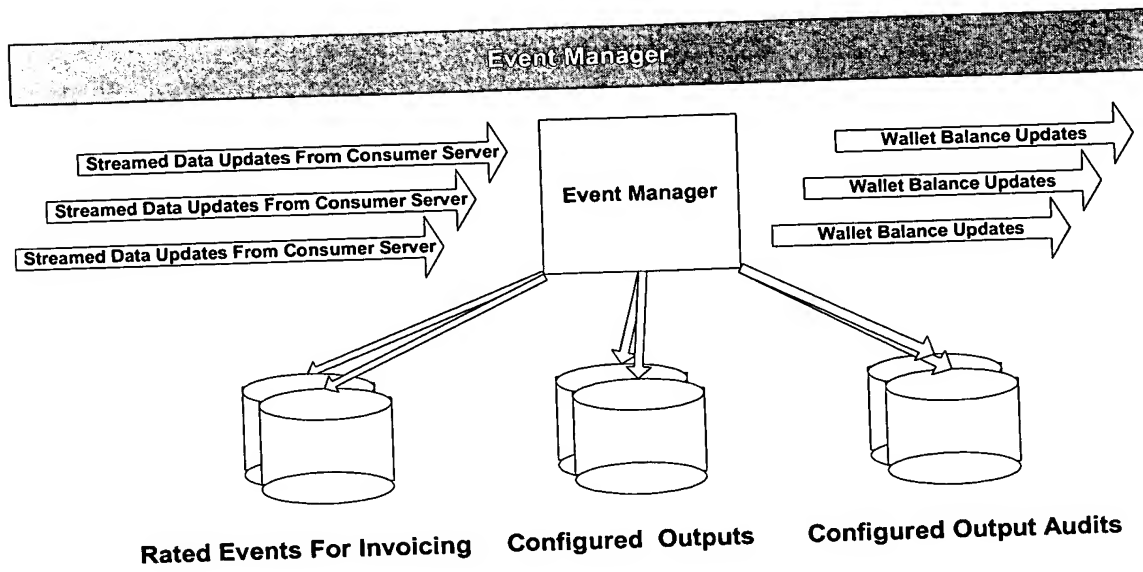


Figure 11

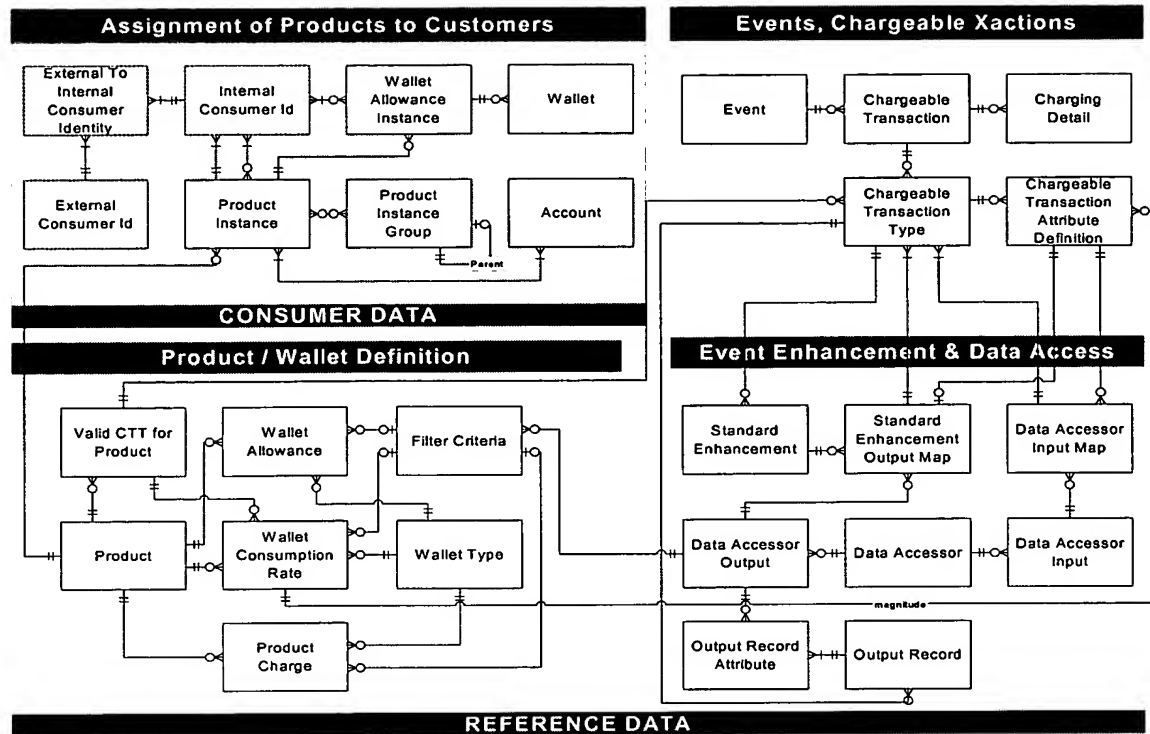


Figure 12

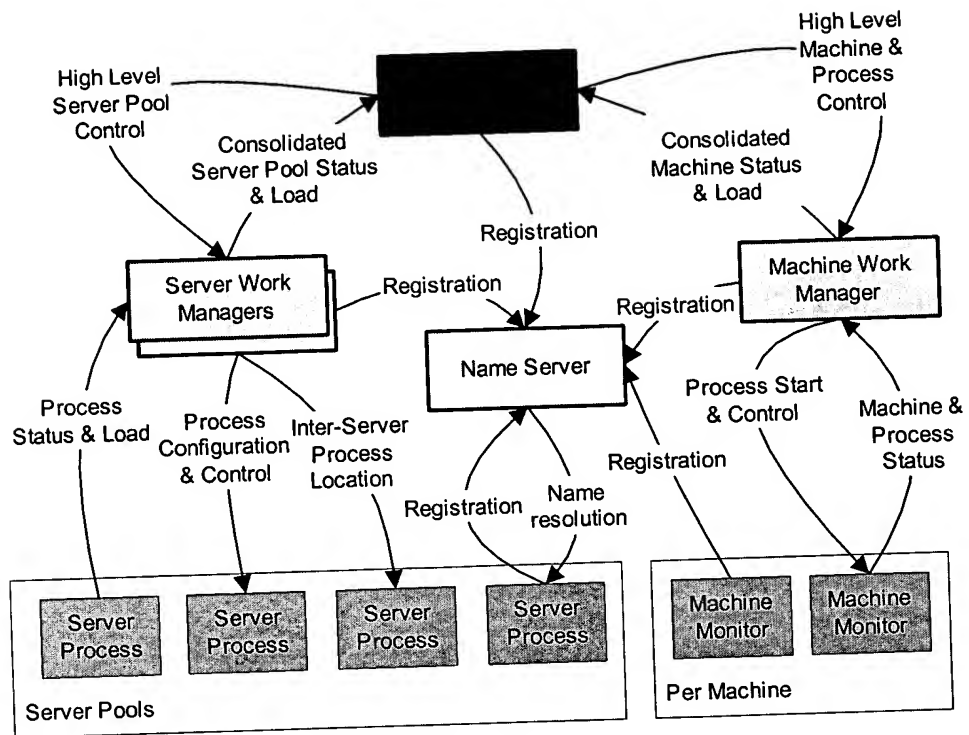


Figure 13

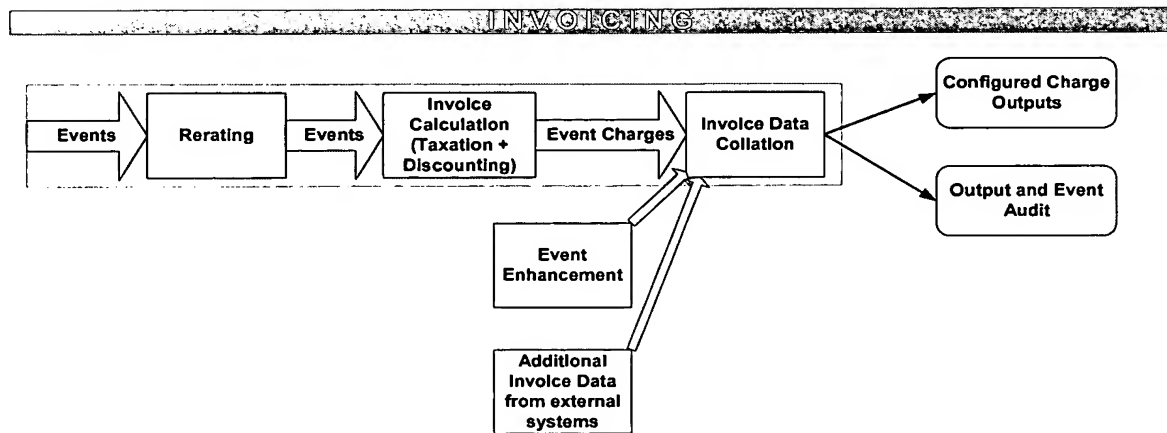


Figure 14

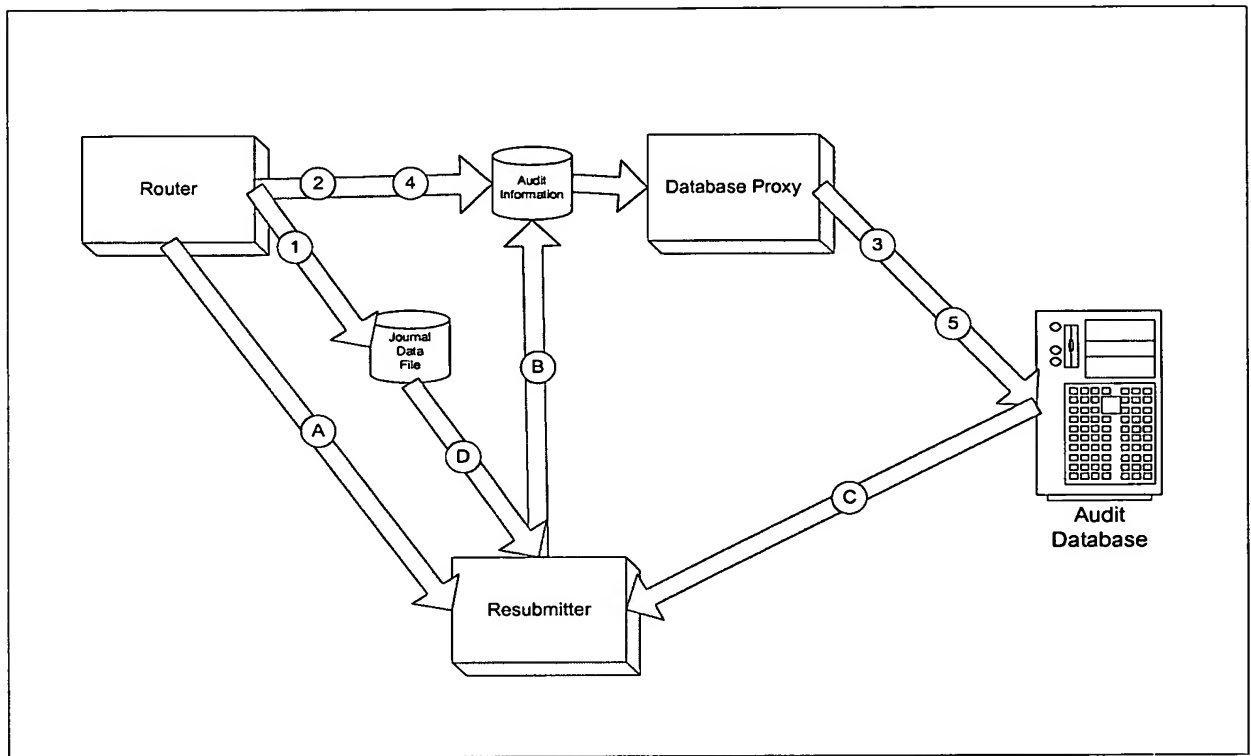
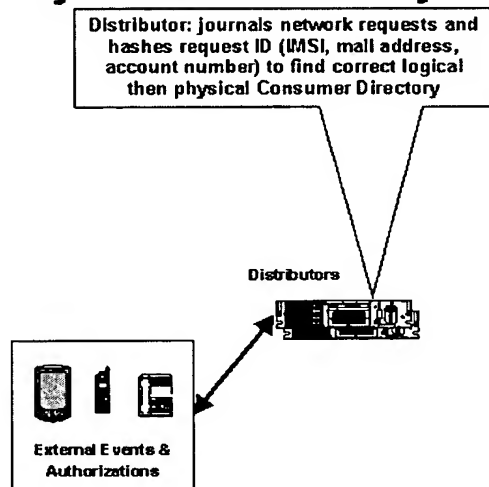


Figure 15

Hydra: Real-Time Physical Architecture



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Figure 17

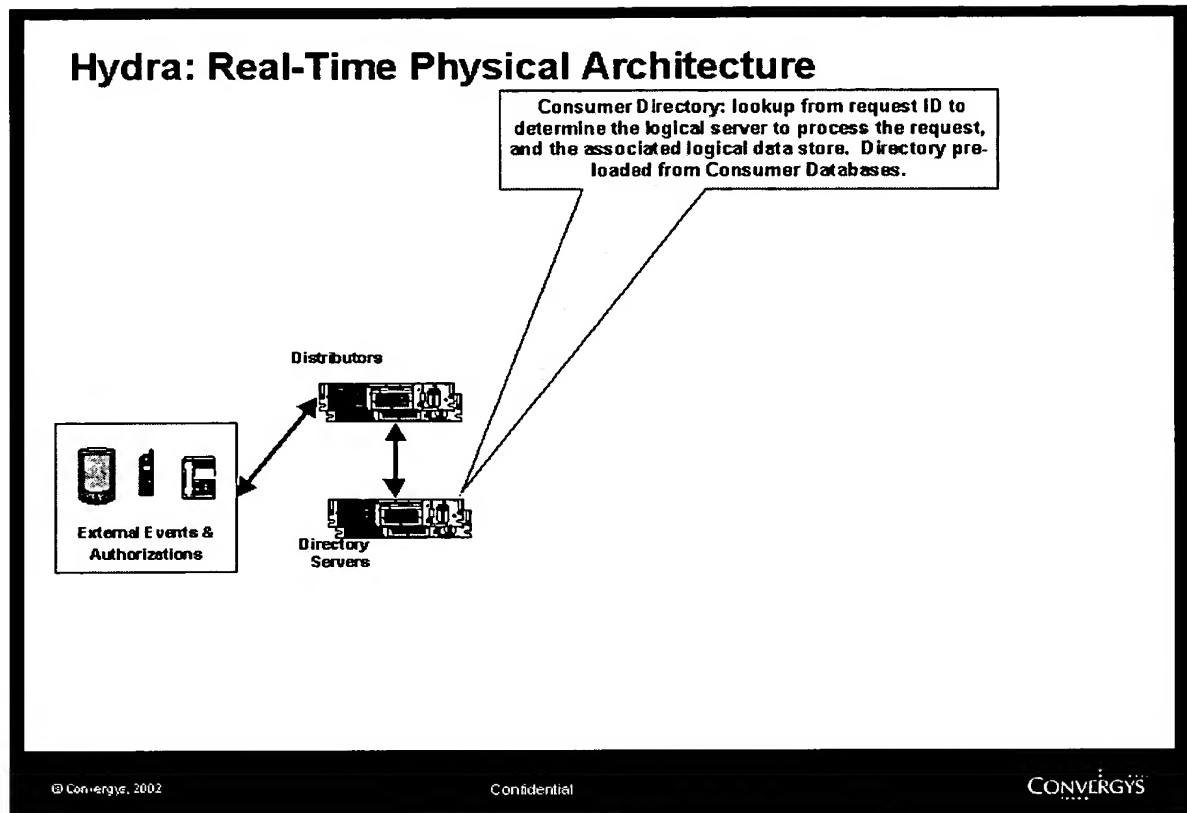


Figure 18

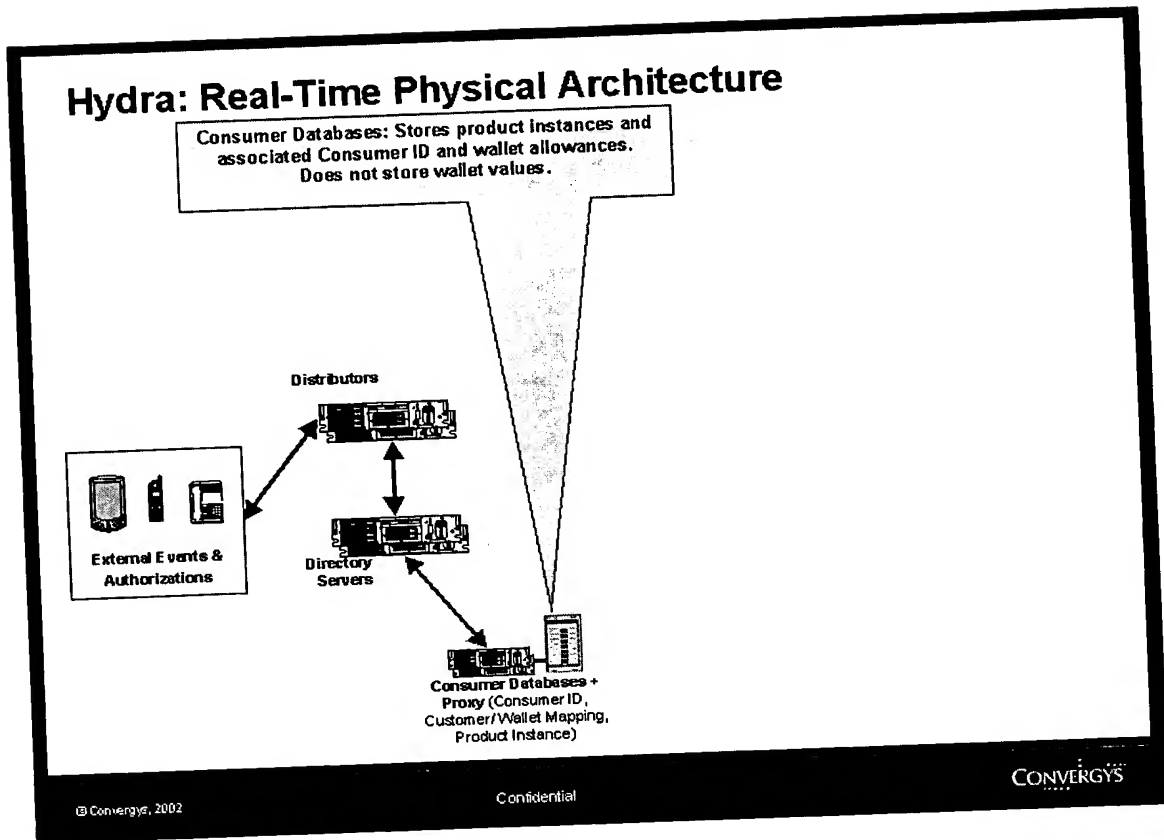


Figure 19

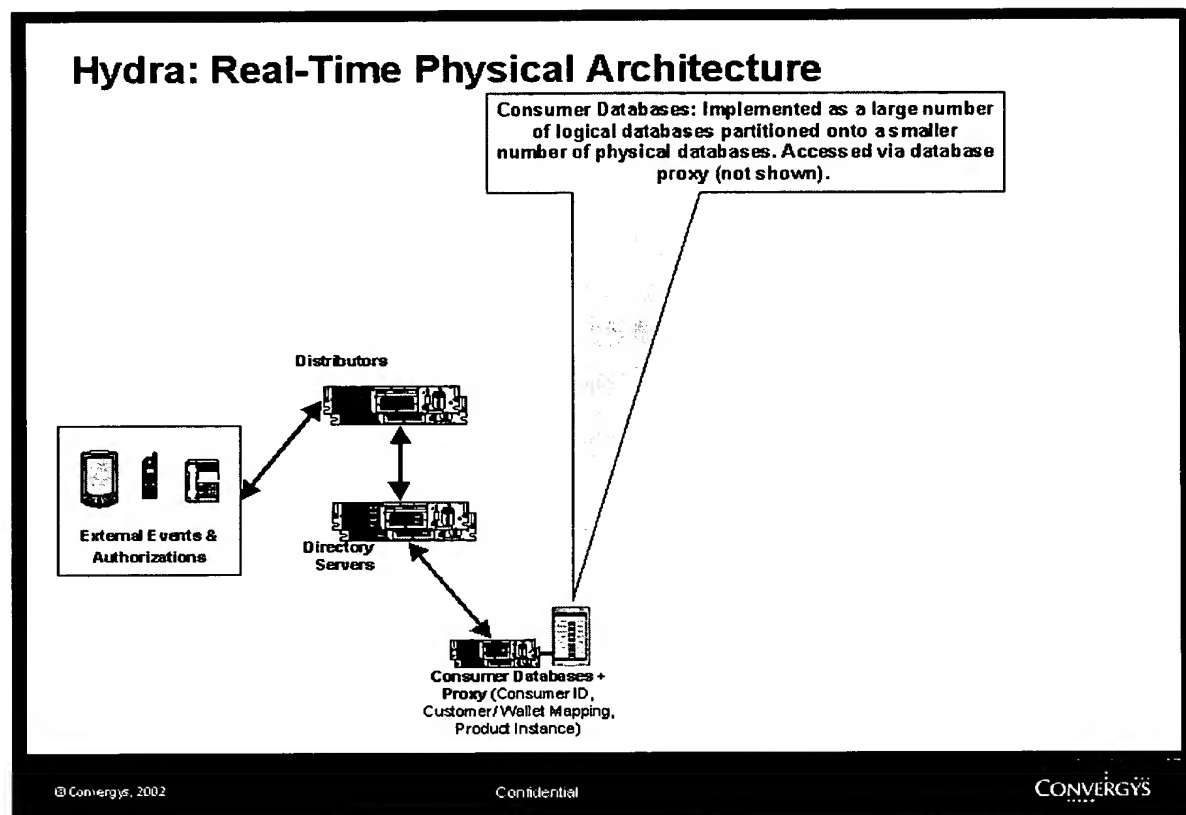
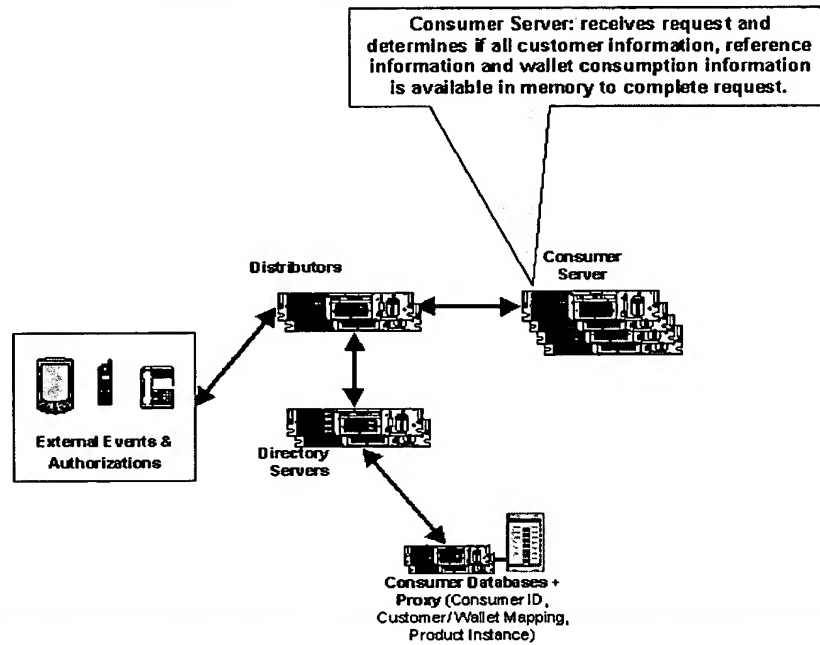


Figure 20

Hydra: Real-Time Physical Architecture



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Figure 21

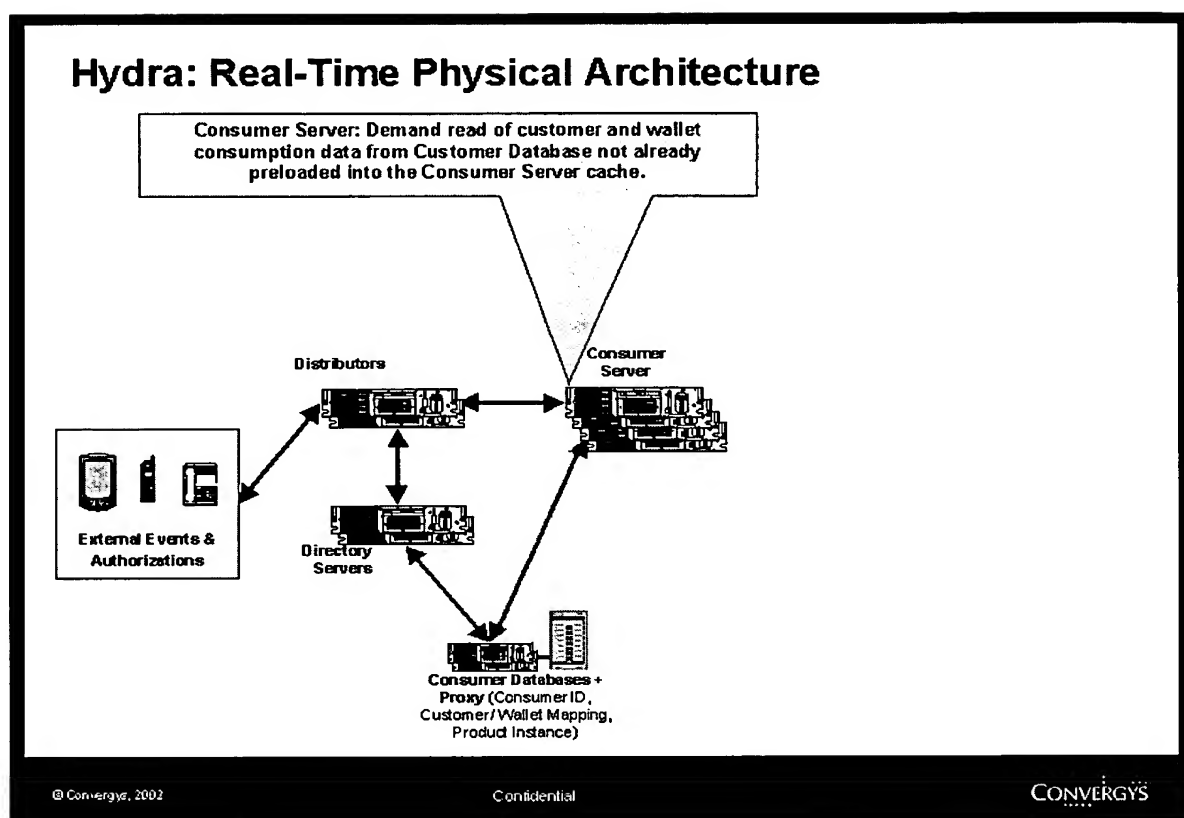


Figure 22

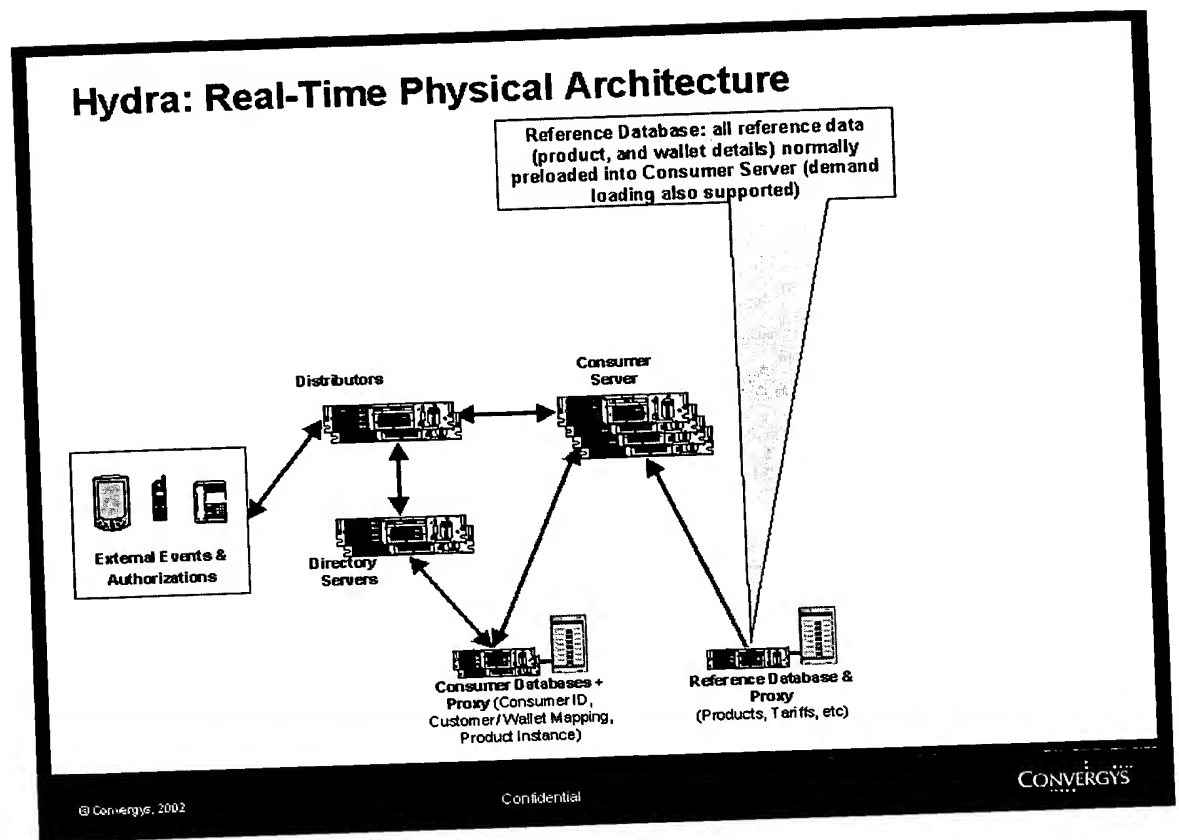
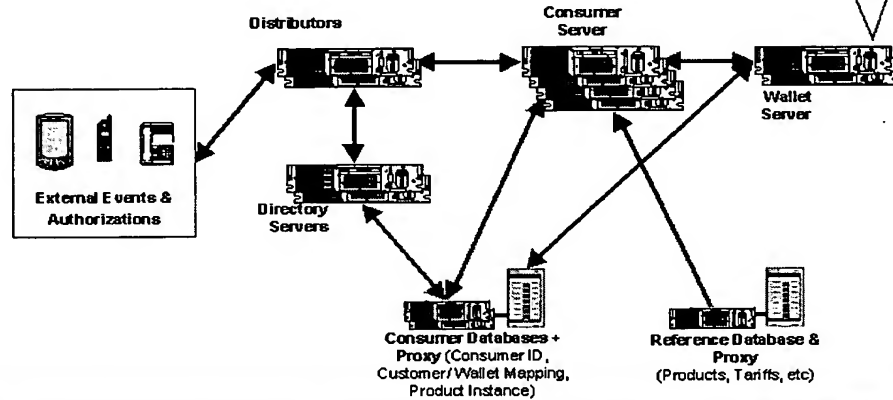


Figure 23

Hydra: Real-Time Physical Architecture

Wallet Server: maintains master copy of wallet for a given period. Creates slave wallets (and and loans) for each Consumer Server (normally prior to event arrival). Wallets initially created using information in Consumer Databases and Reference Database.



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Figure 24

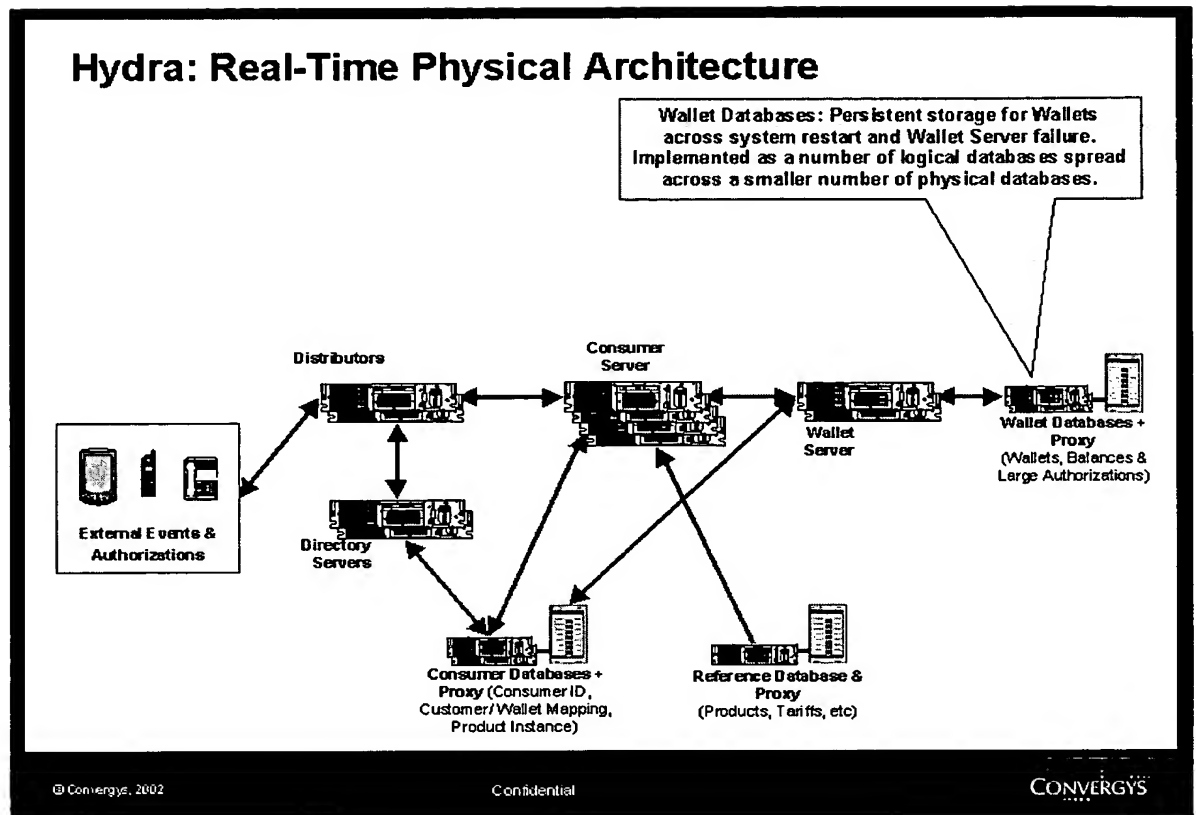


Figure 25

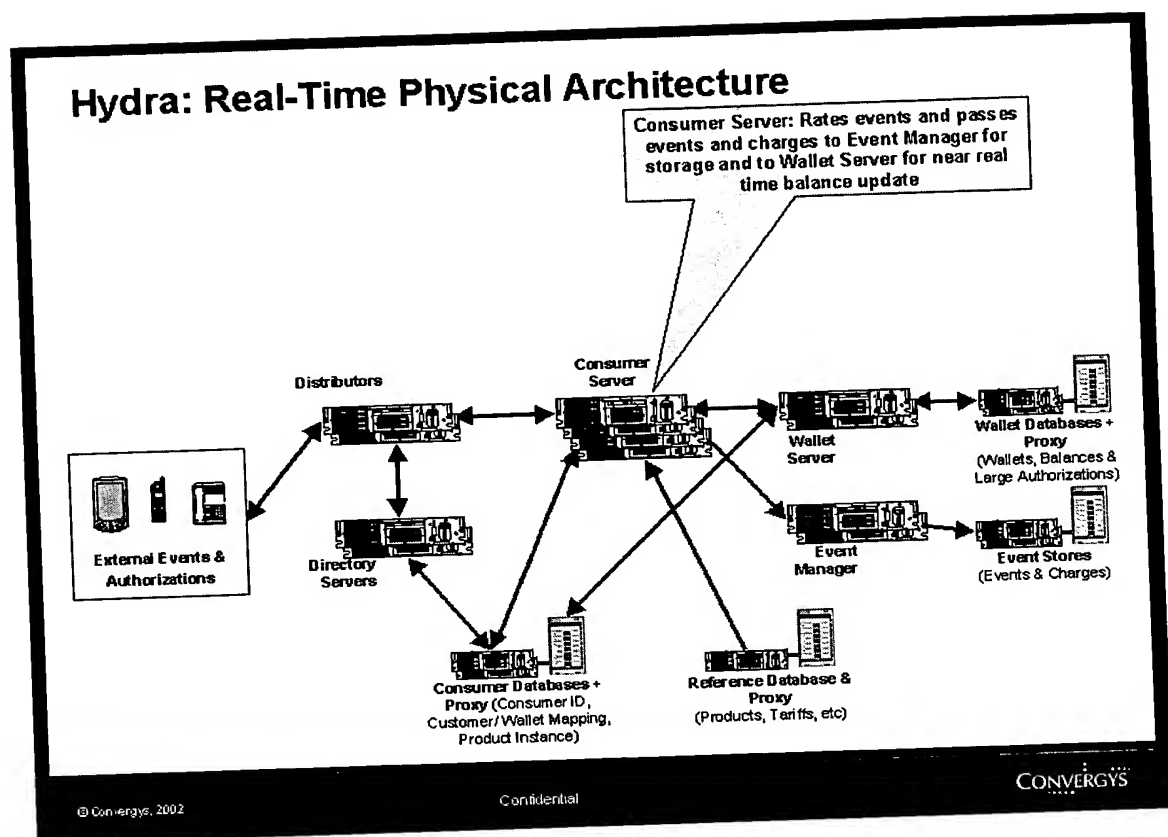


Figure 26

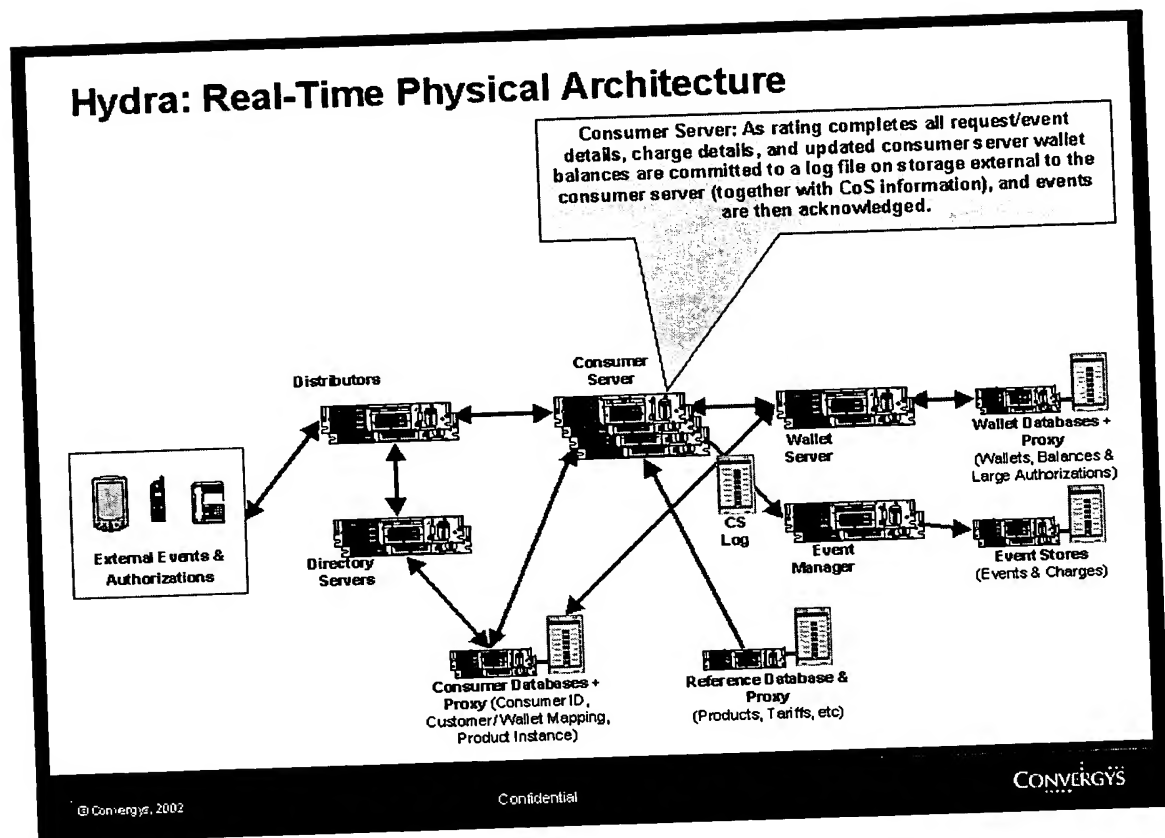
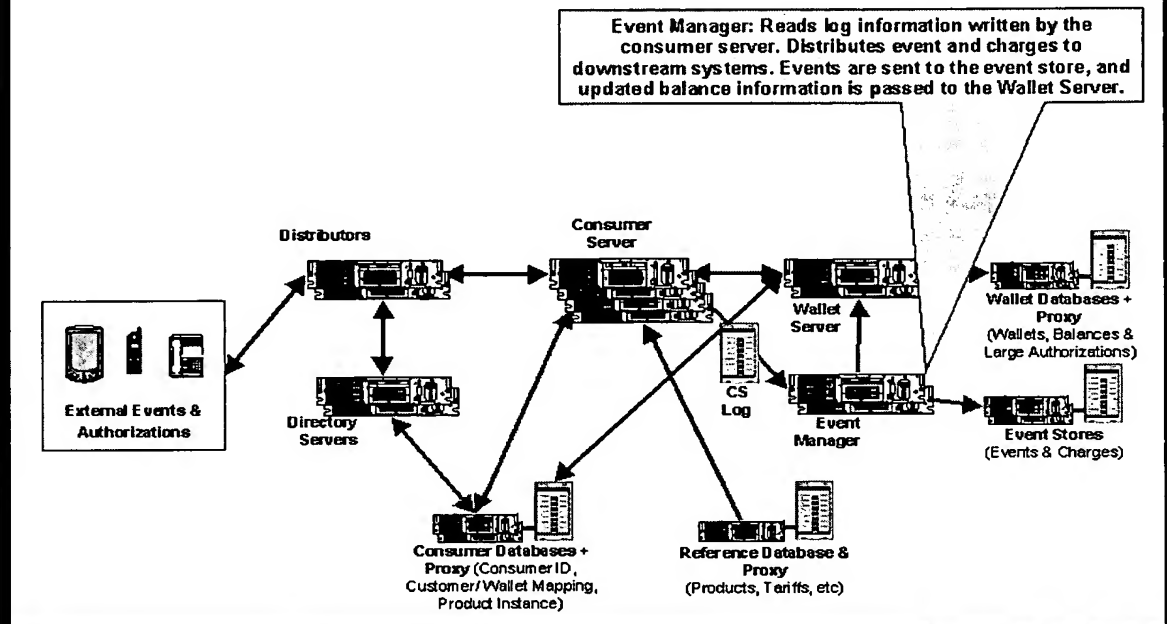


Figure 27

Hydra: Real-Time Physical Architecture



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Figure 28

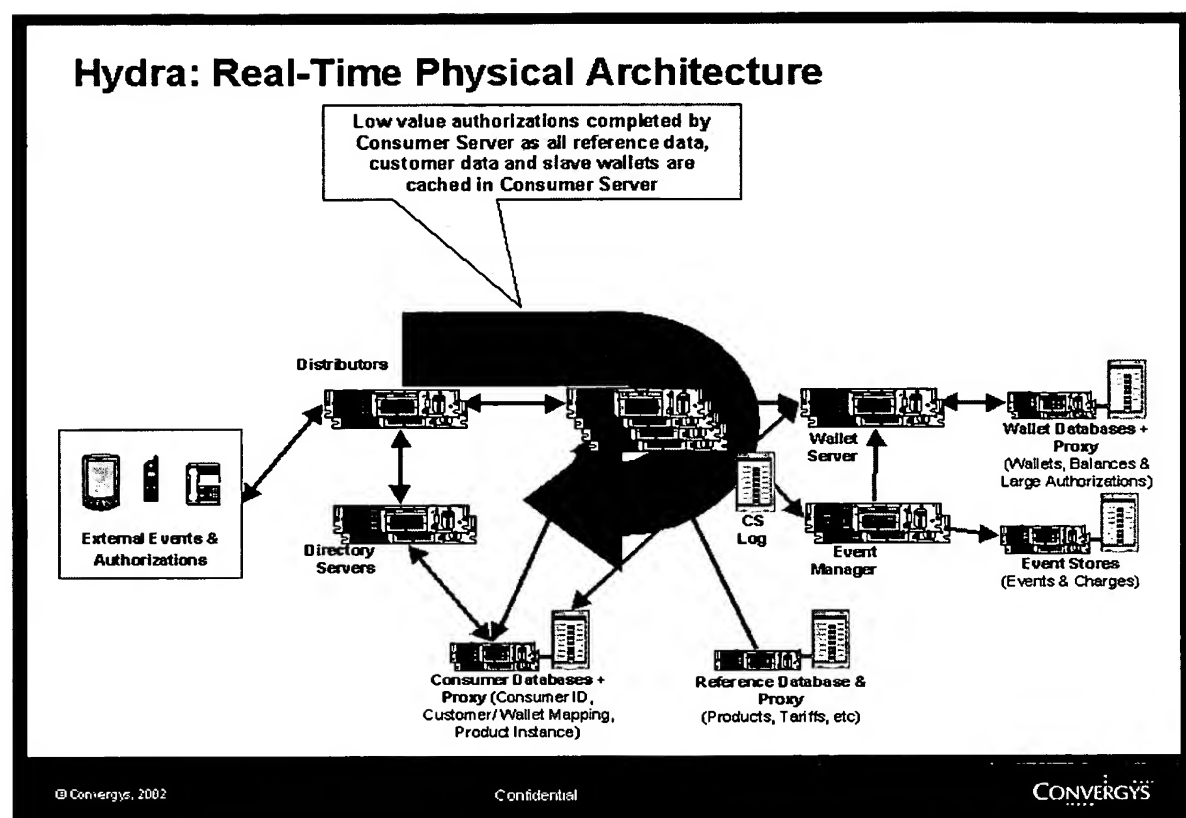


Figure 29

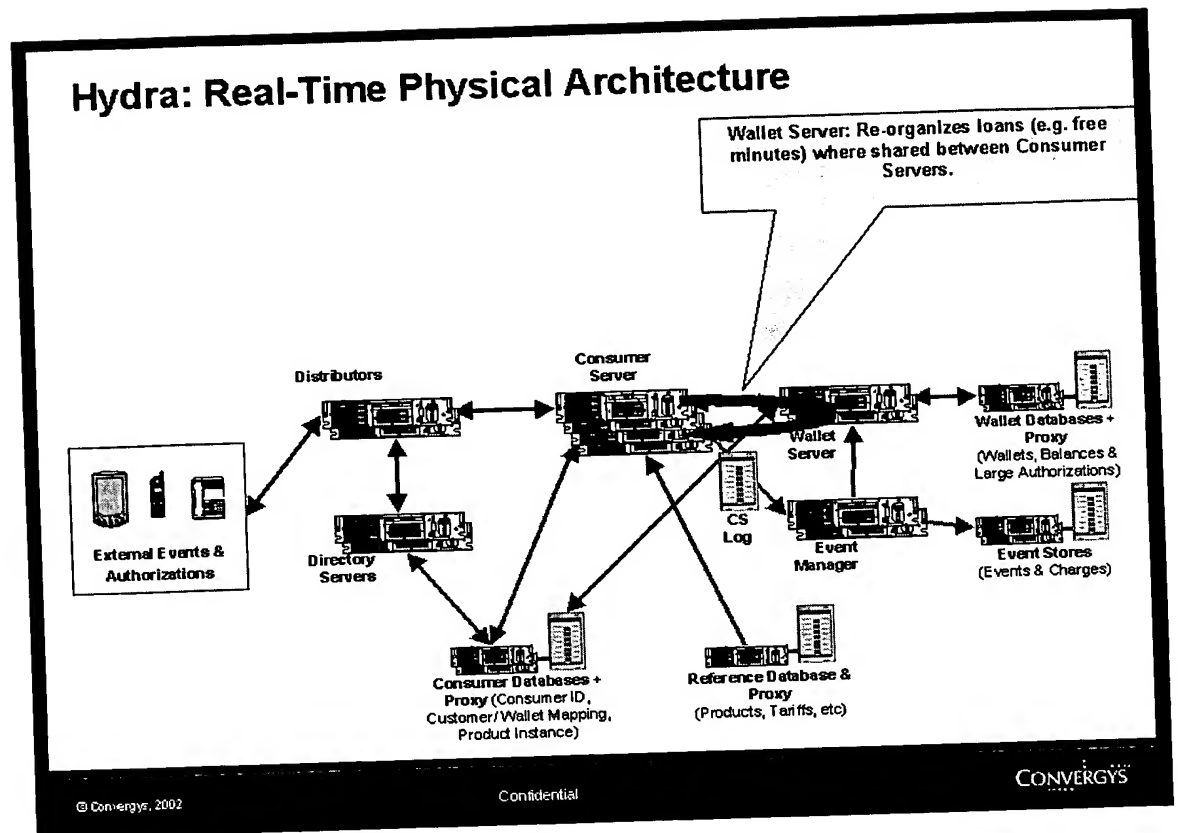
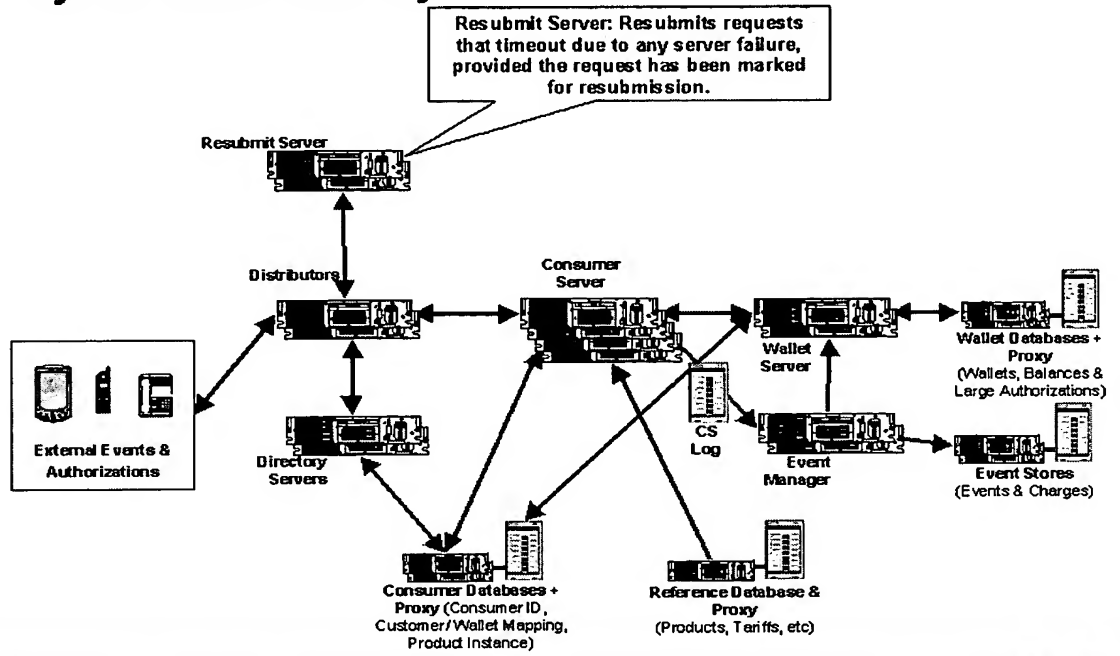


Figure 30

Hydra: Real-Time Physical Architecture



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Figure 31

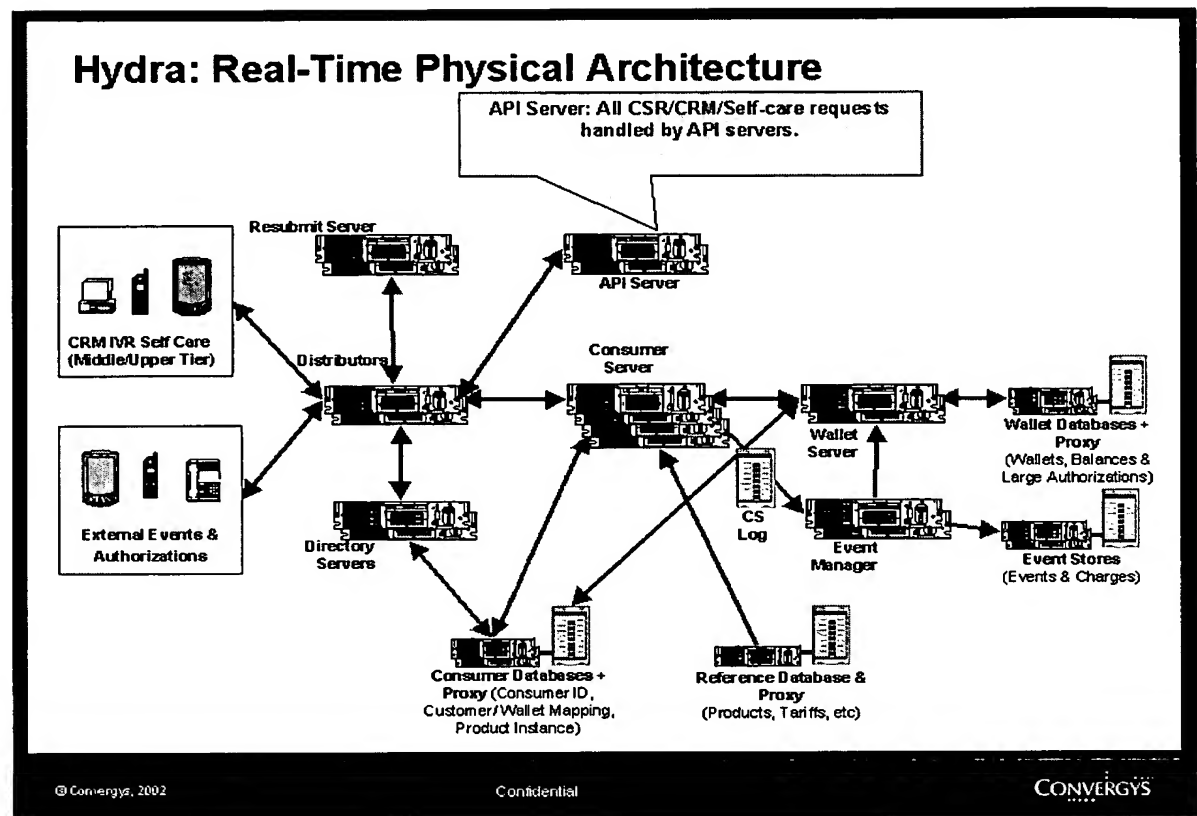


Figure 32

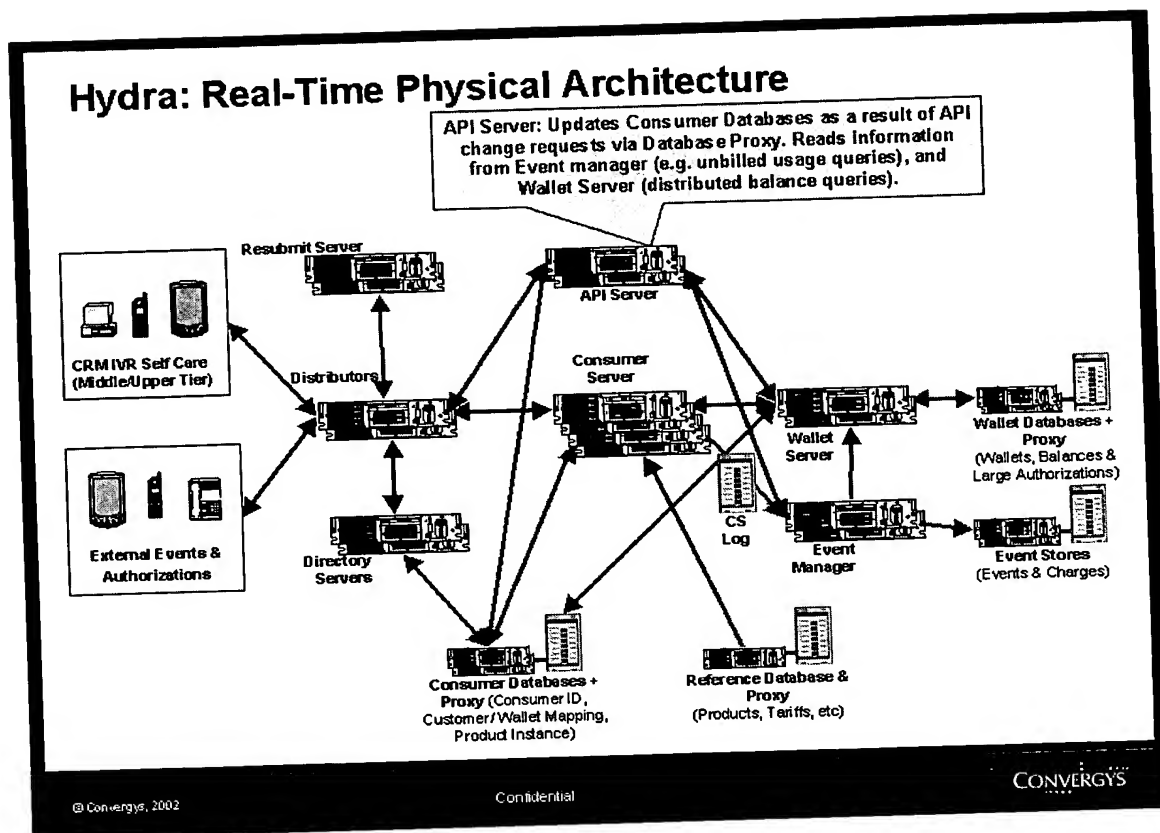
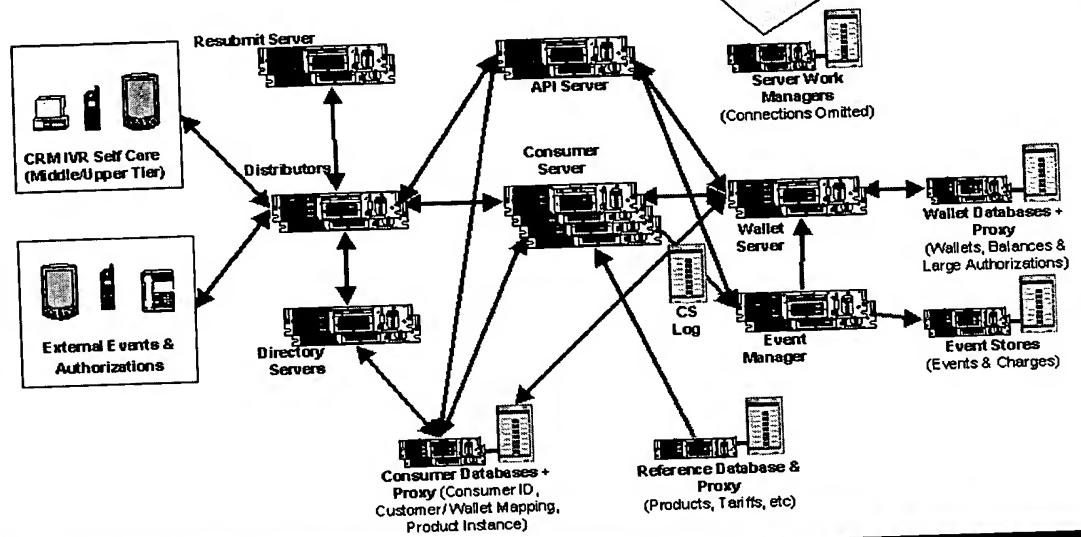


Figure 33

Hydra: Real-Time Physical Architecture

Work Managers. Each pool of servers (Consumer Server, Wallet Server etc) has a dedicated work manager to manage the individual servers within the pool and undertake monitoring and work load management.



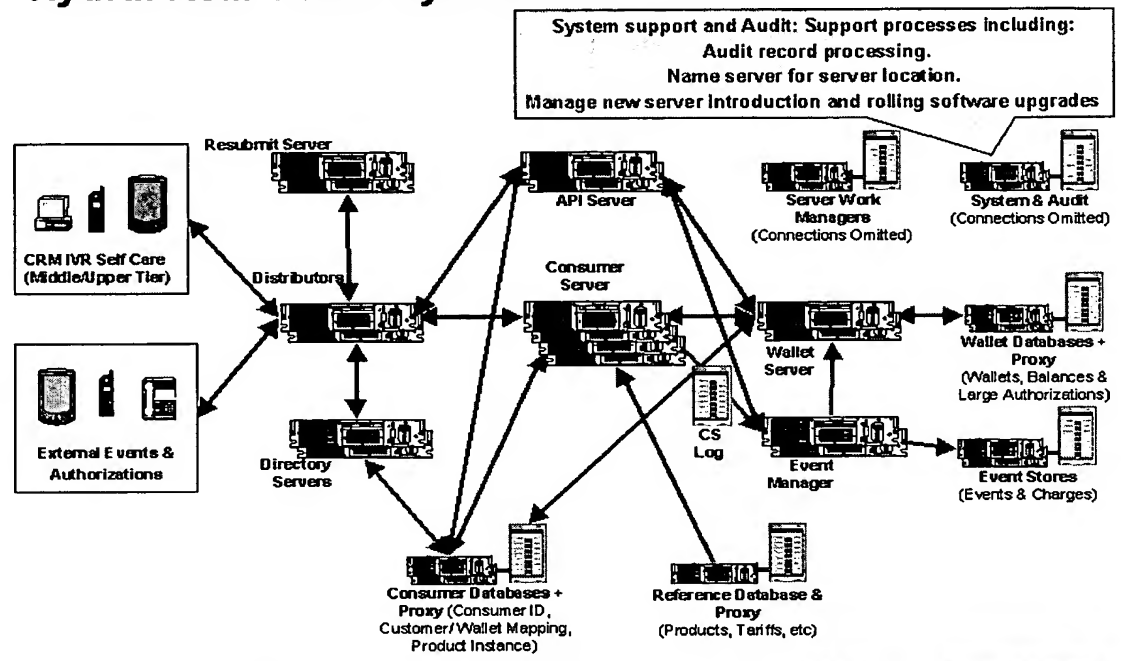
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Figure 34

Hydra: Real-Time Physical Architecture



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Figure 35

Scenario 1 – Roaming

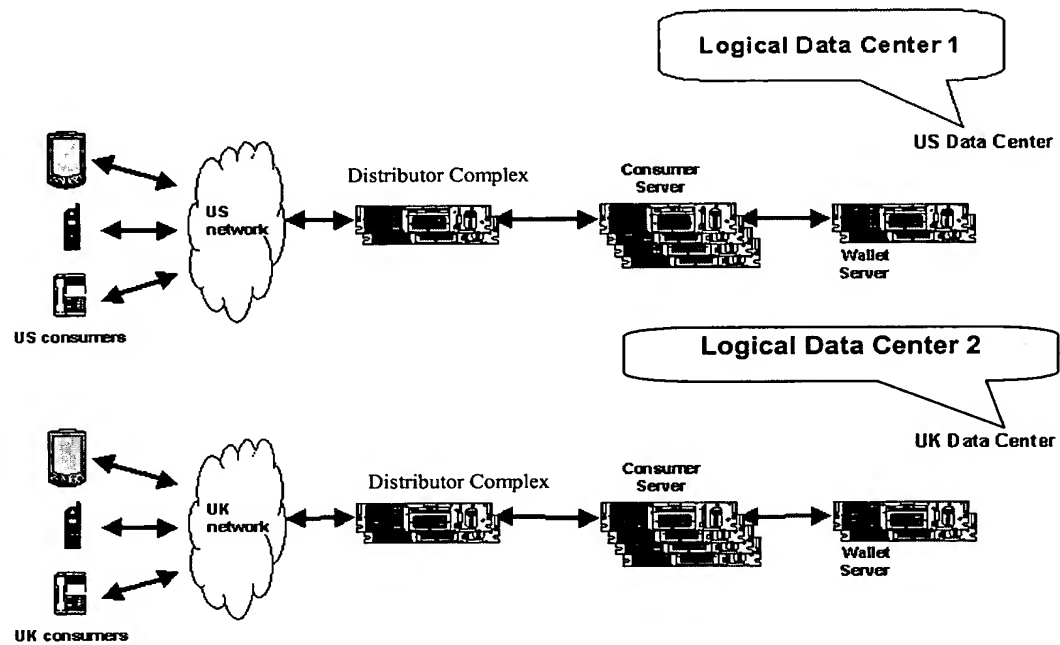


Figure 36

Scenario 1 – Roaming

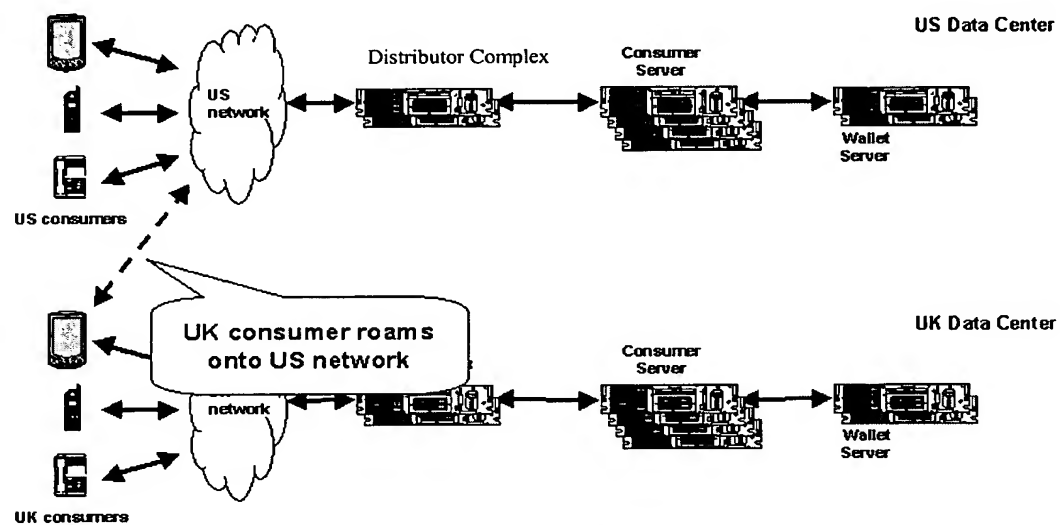


Figure 37

Scenario 1 – Roaming

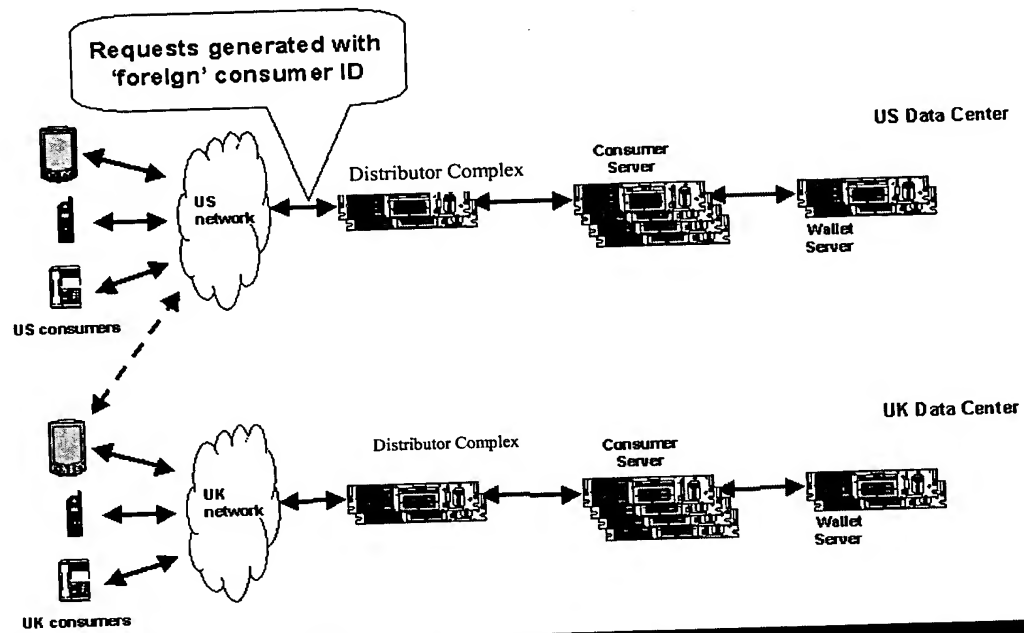


Figure 38

Scenario 1 – Roaming

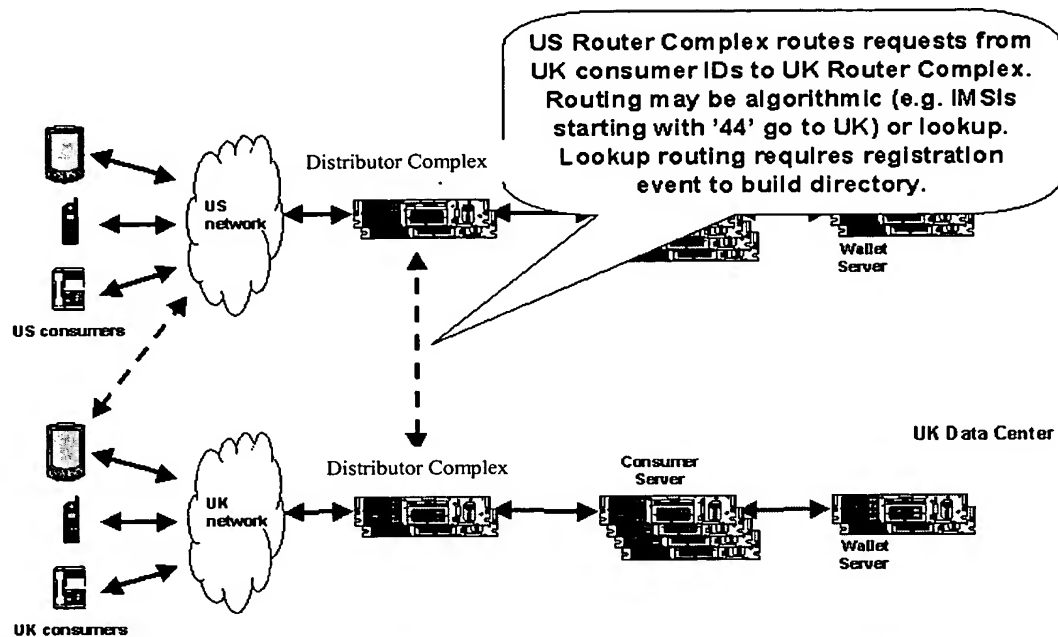


Figure 39

Scenario 1 – Wallet shared across data centers

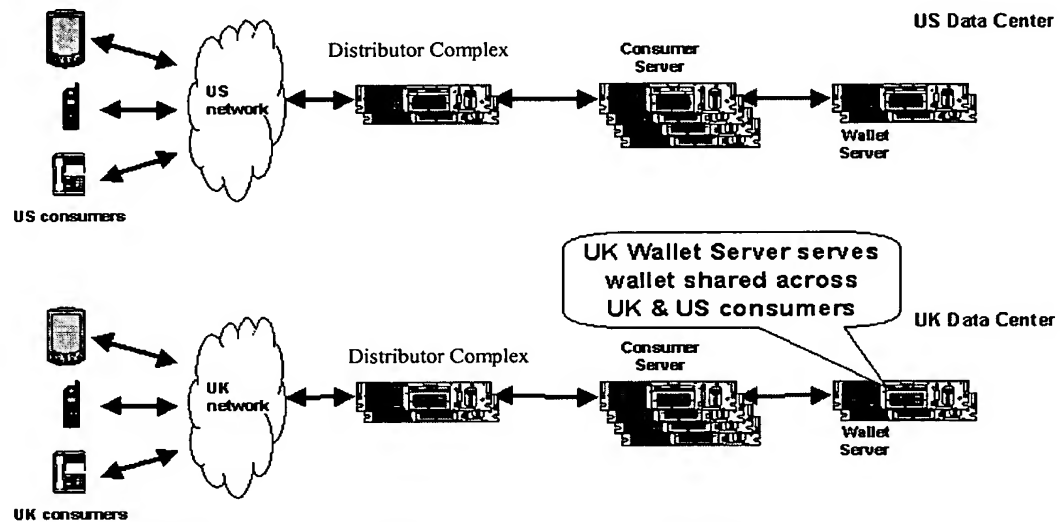


Figure 40

Scenario 1 – Wallet shared across data centers

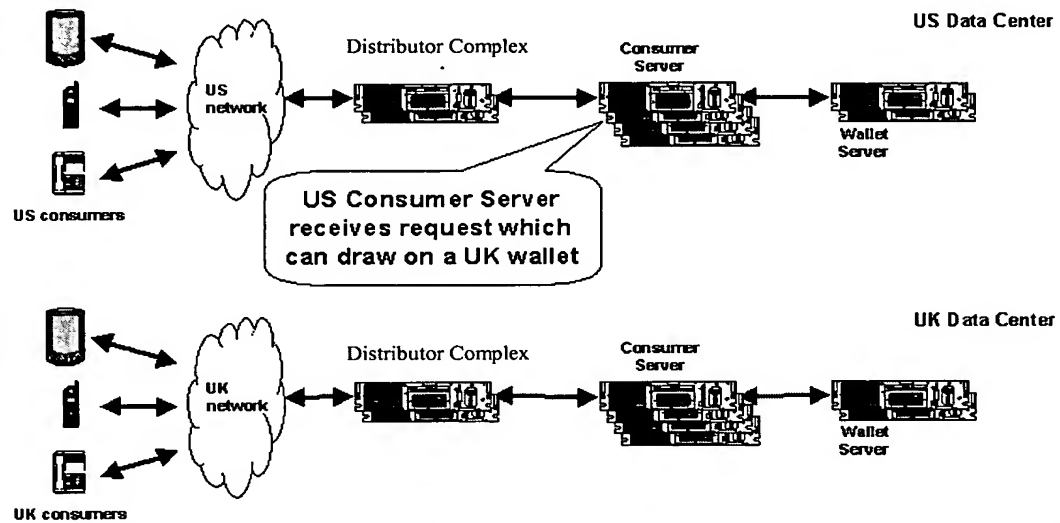


Figure 41

Scenario 1 – Wallet shared across data centers

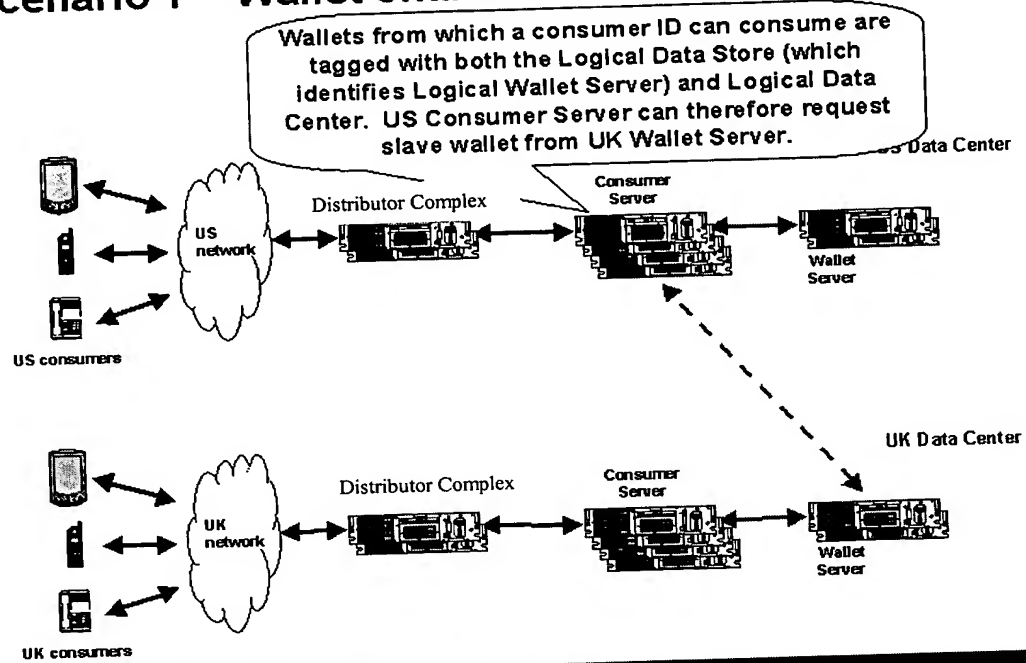


Figure 42

Scenario 1 – Wallet shared across data centers

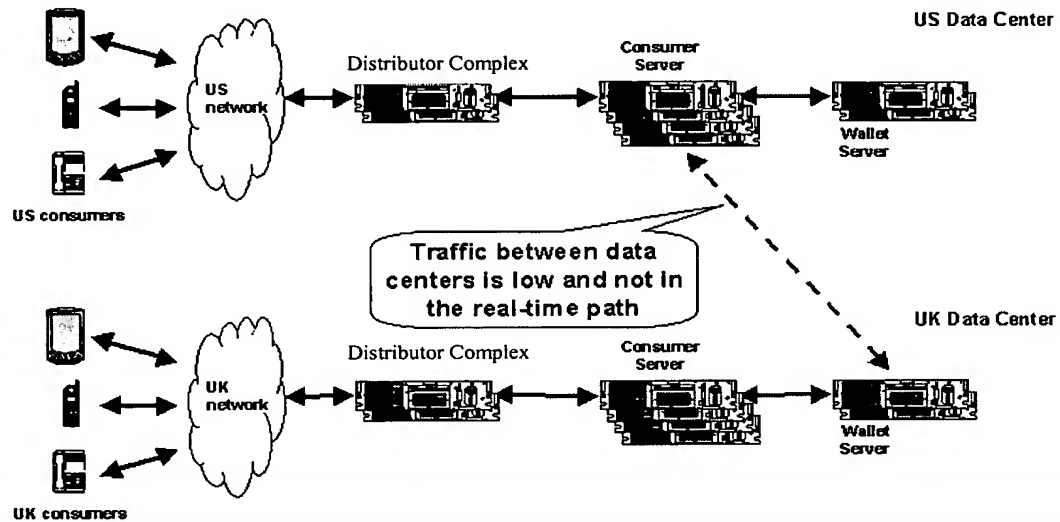


Figure 43

Scenario 2 – Single network, multiple data centers

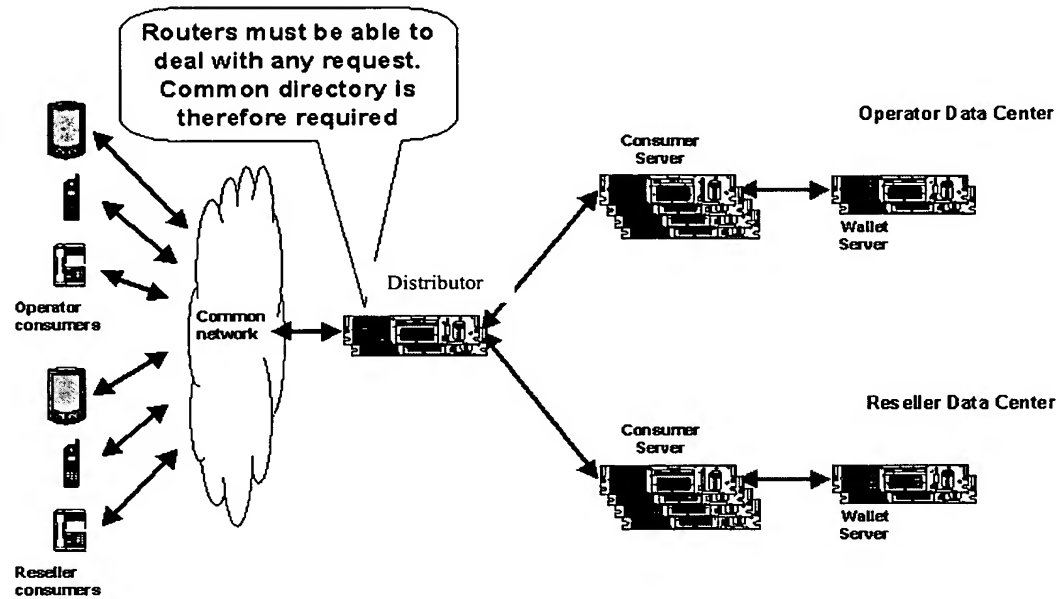


Figure 44

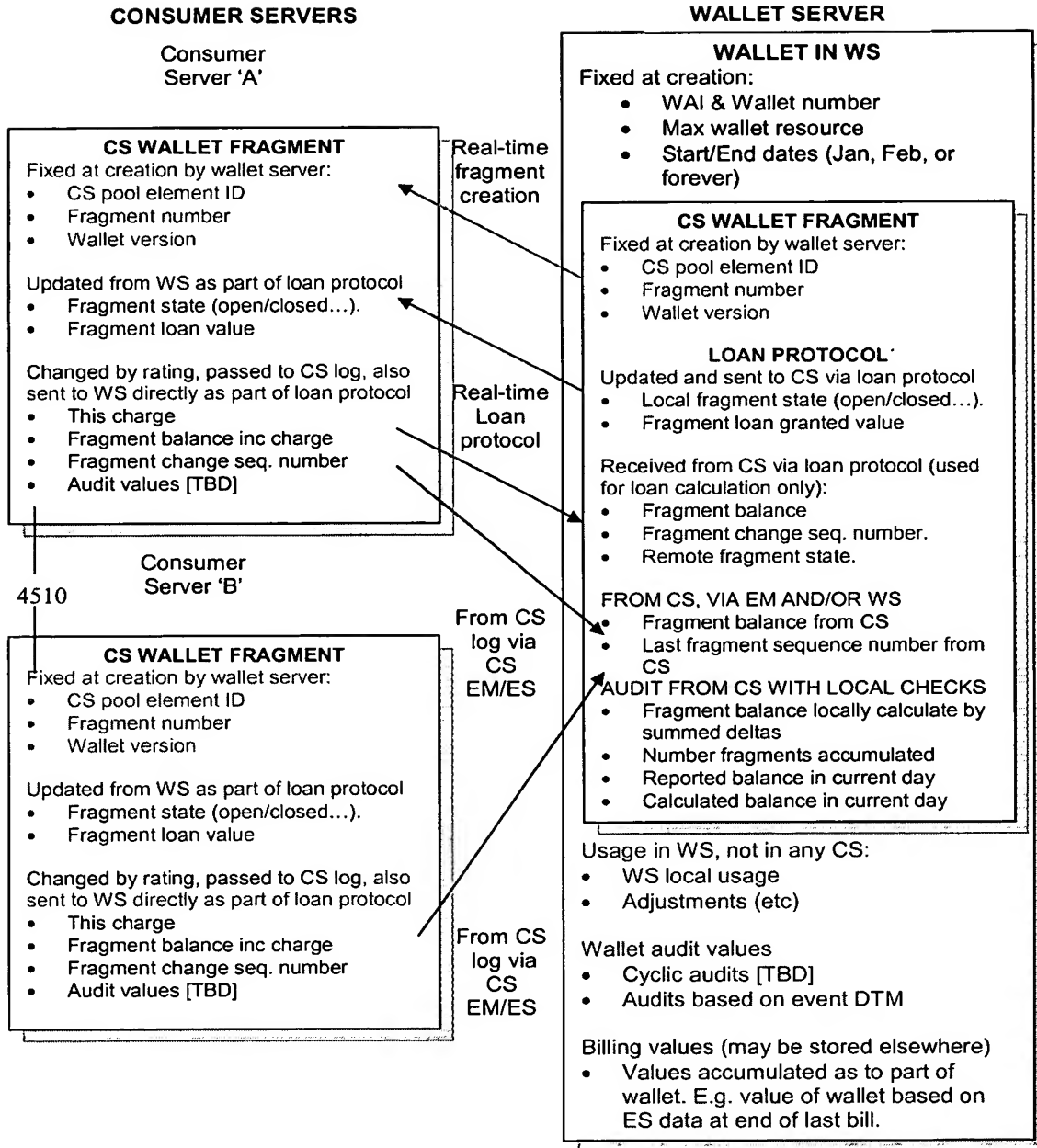


Figure 45A

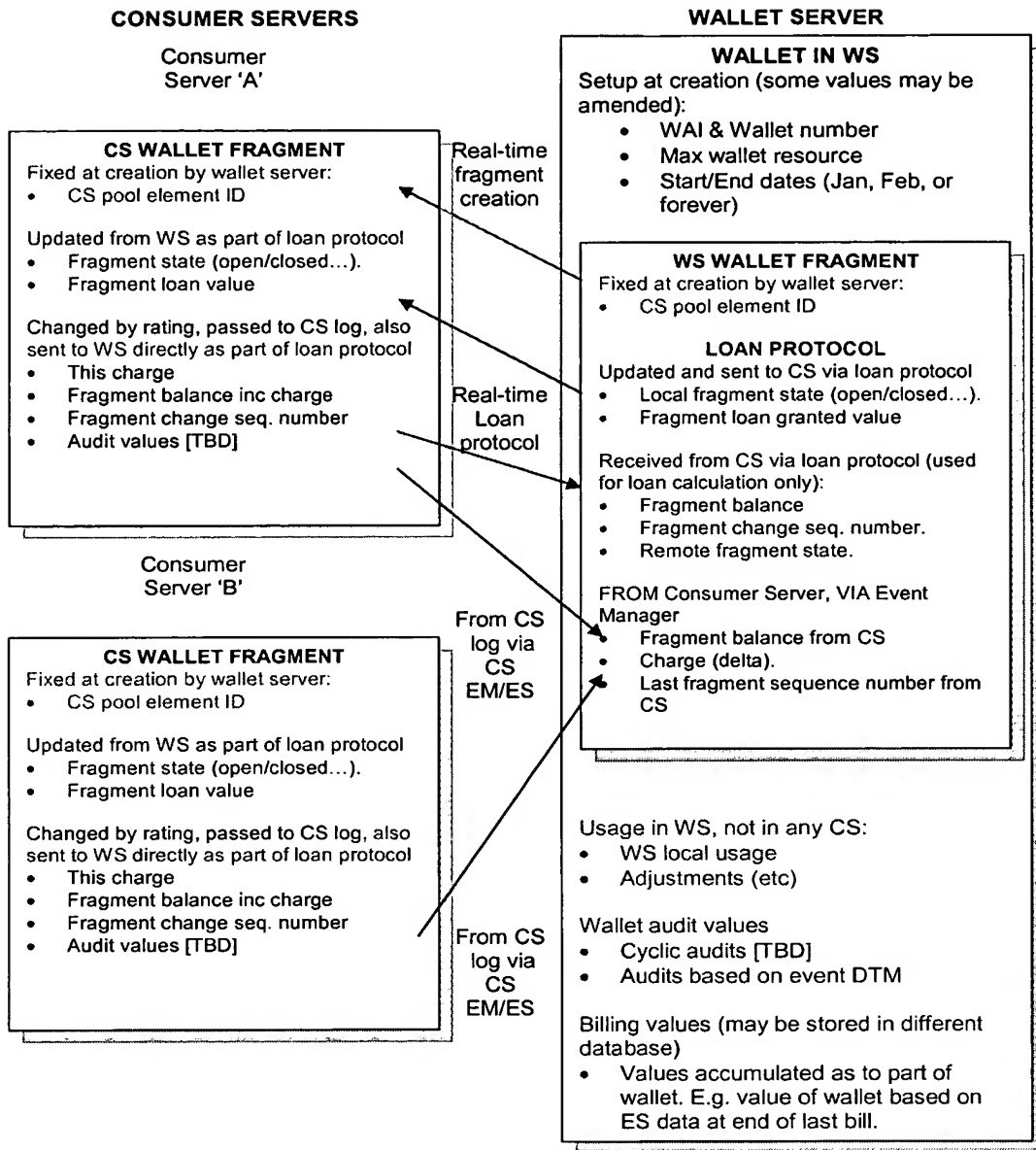


Figure 45B

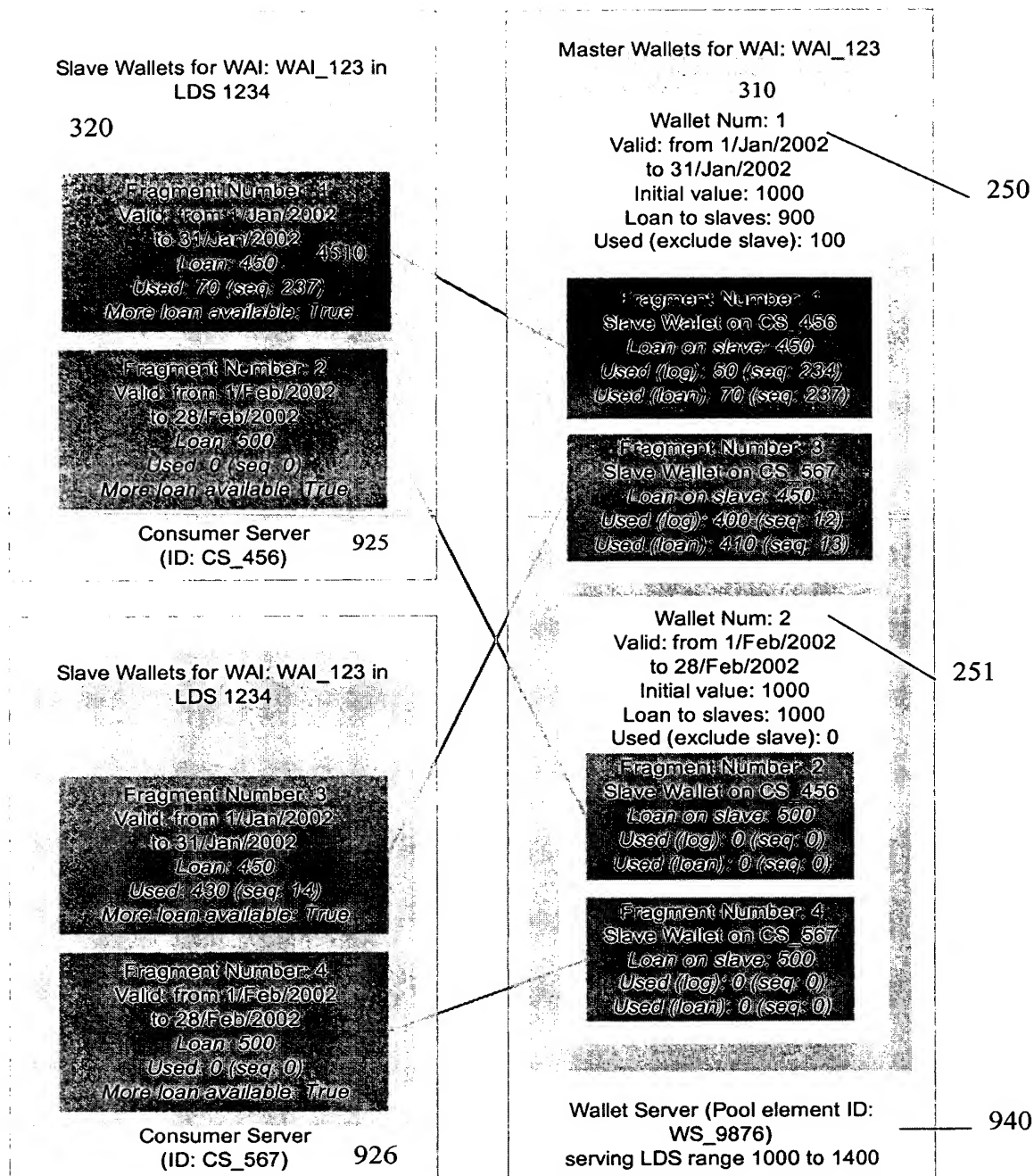


Figure 46A

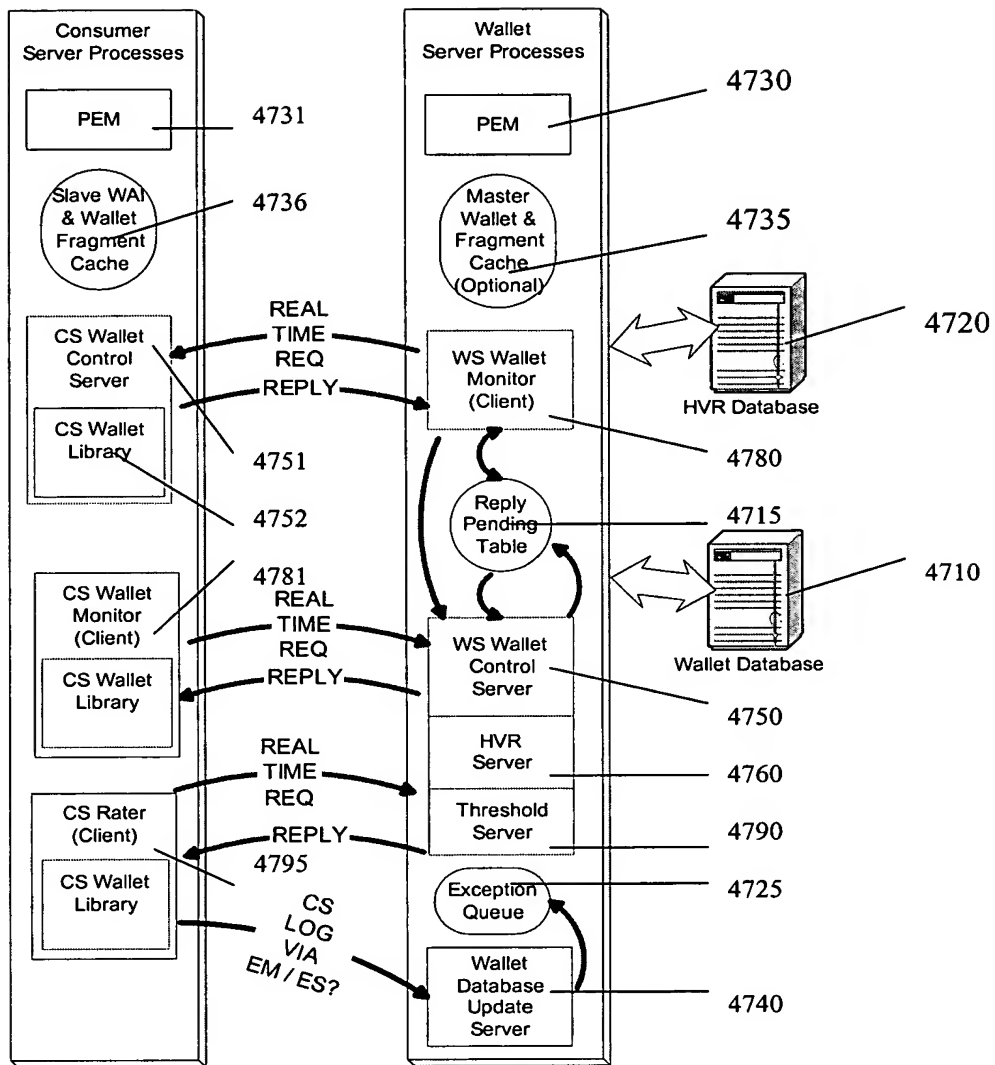


Figure 47A

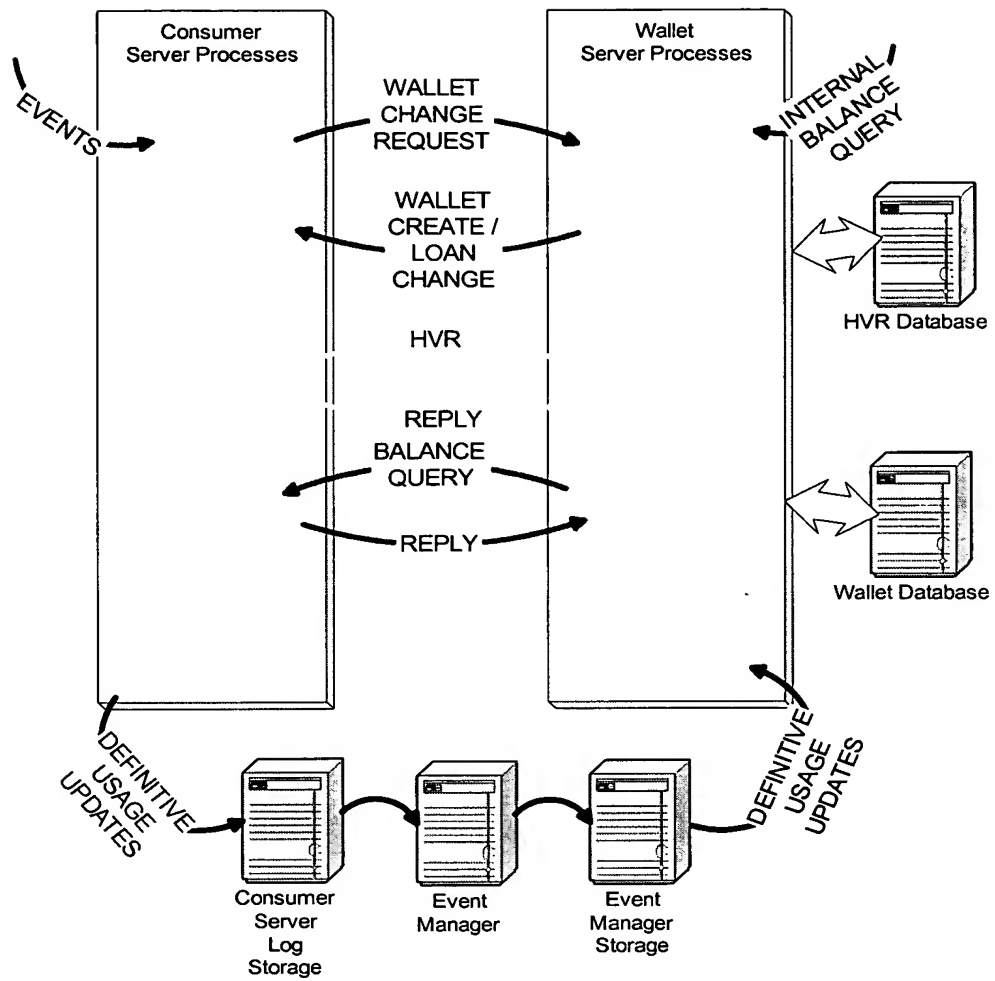


Figure 47B

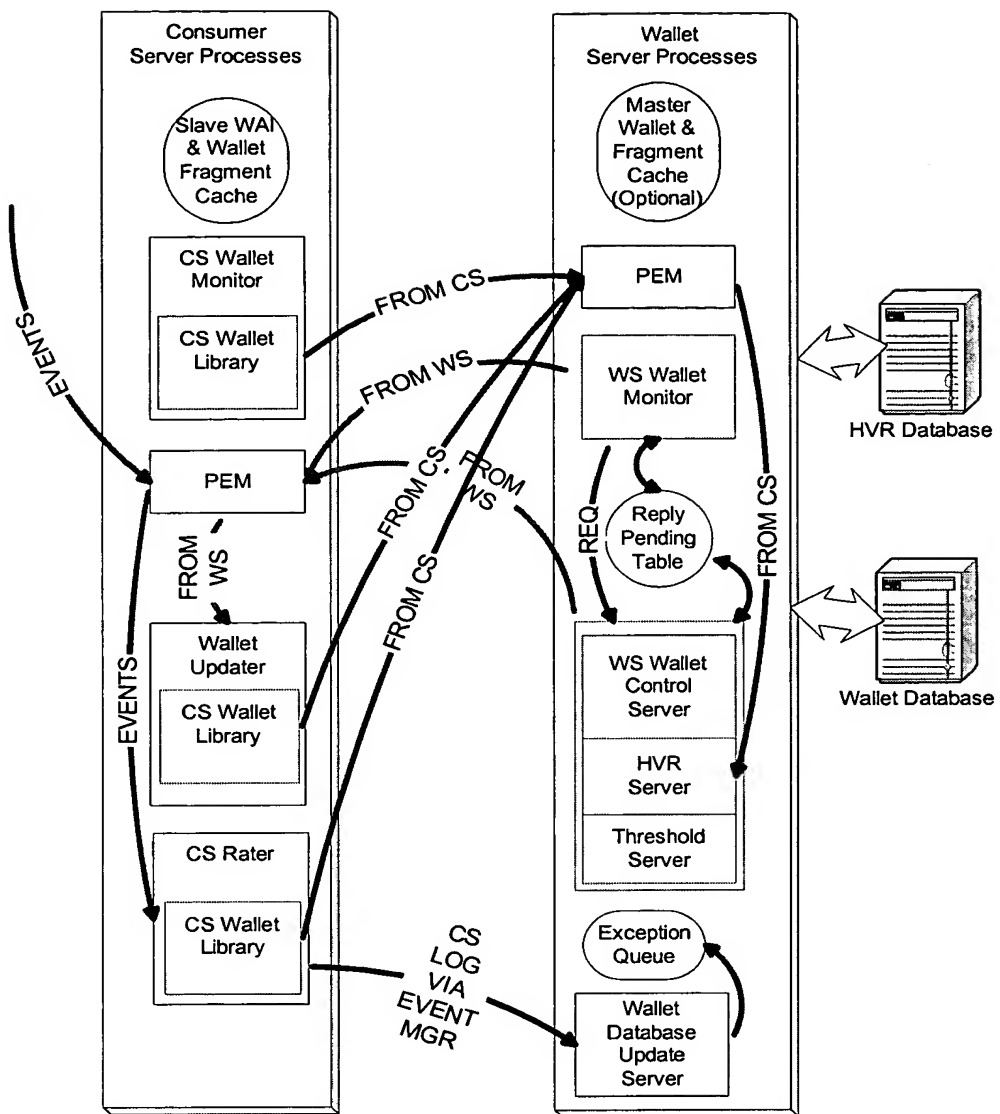


Figure 47C

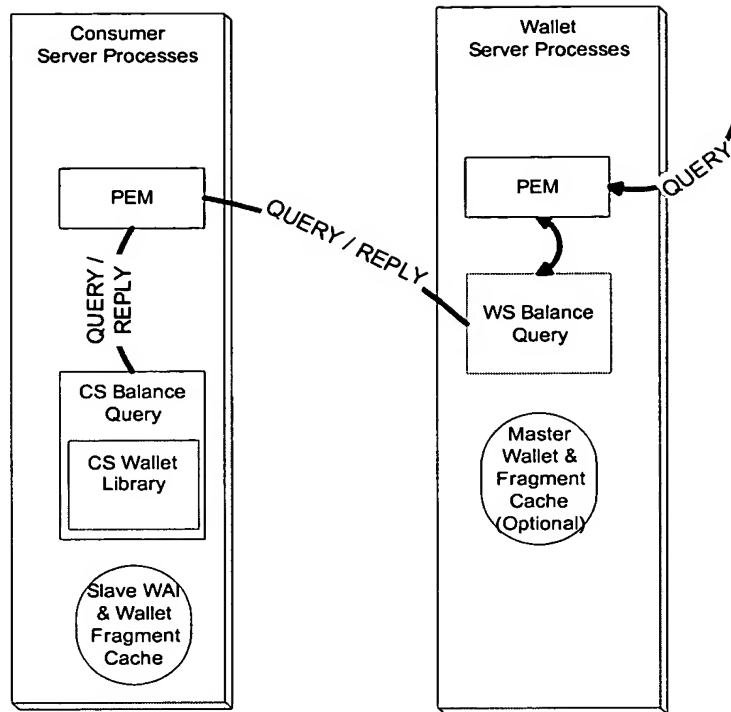


Figure 47D

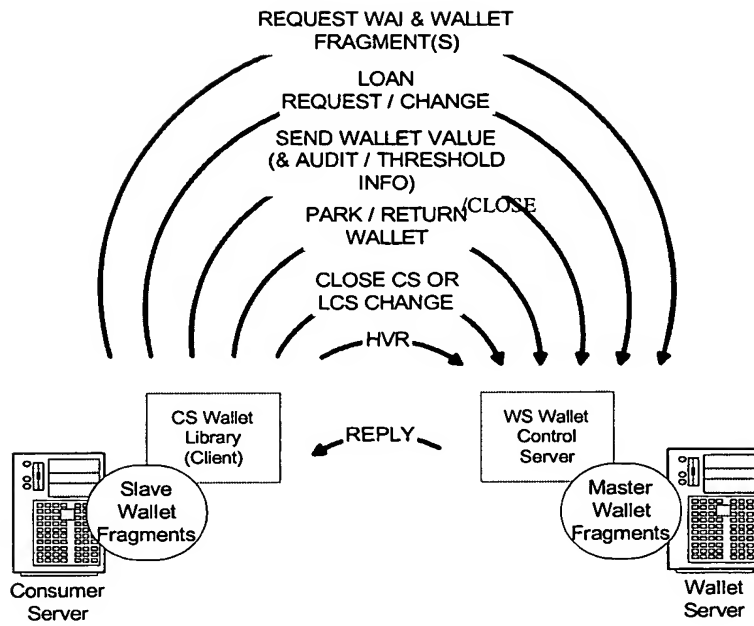


Figure 48A

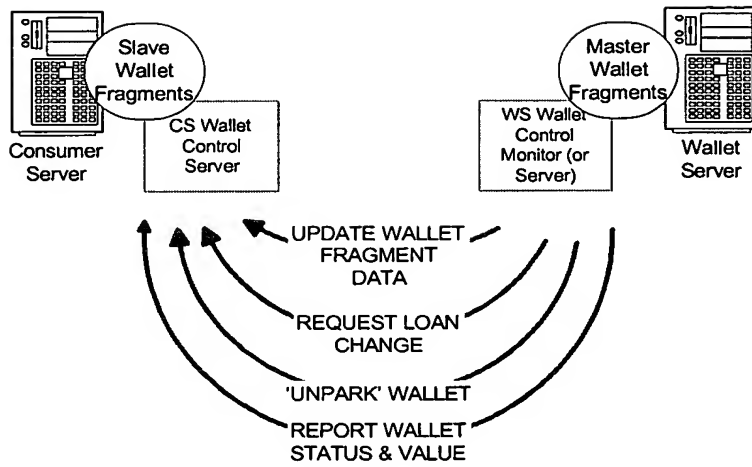


Figure 48B

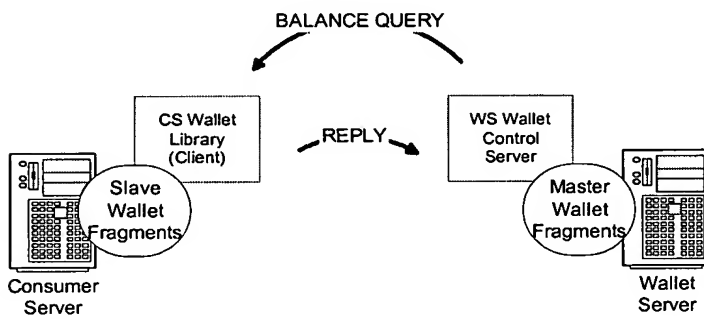


Figure 48C

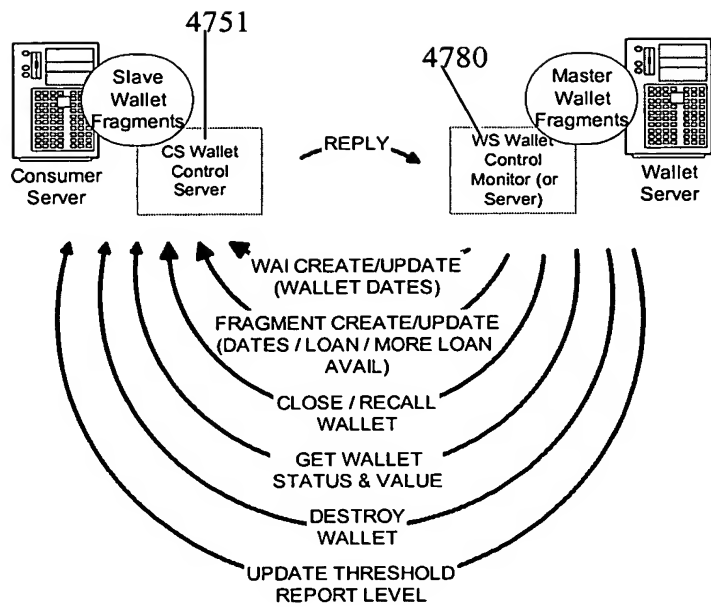


Figure 49

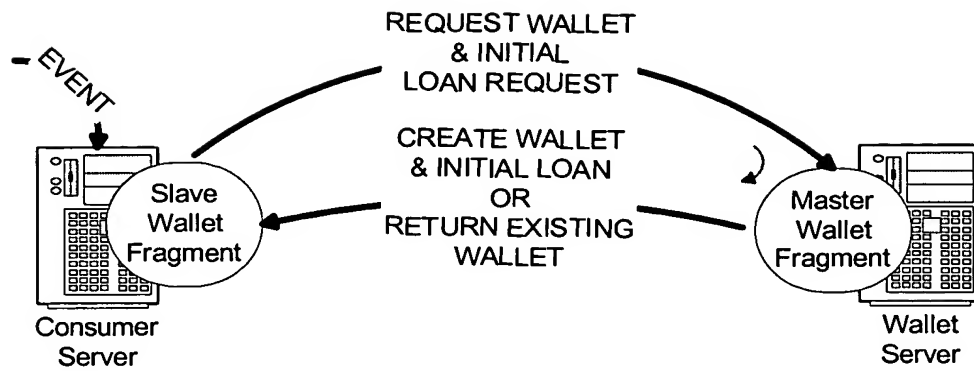


Figure 50A

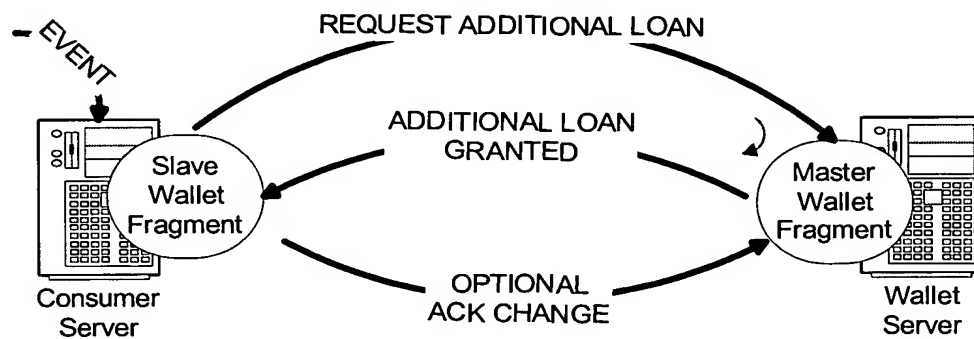


Figure 50B

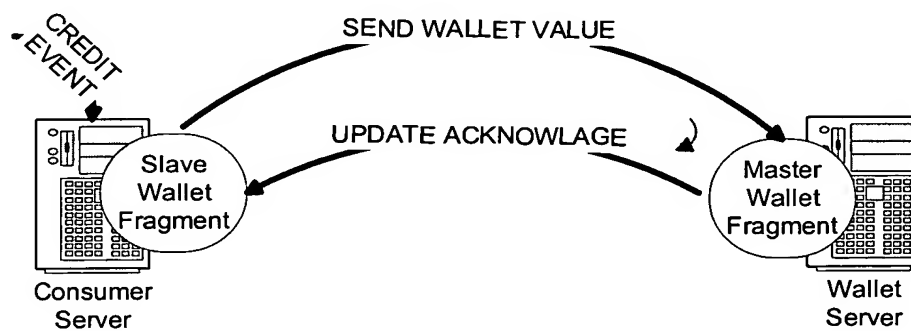


Figure 50C

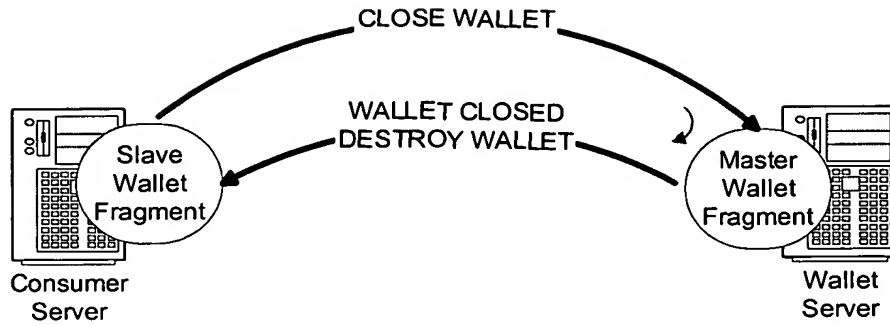


Figure 50D

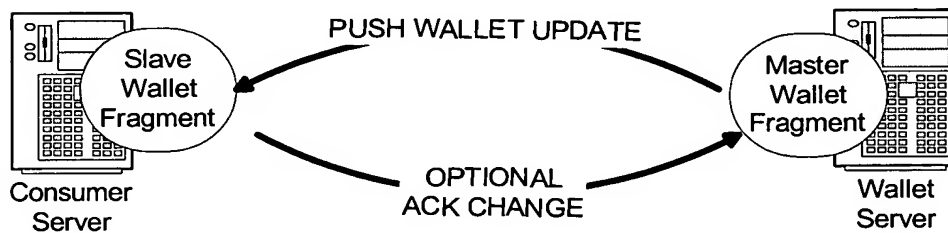


Figure 50E

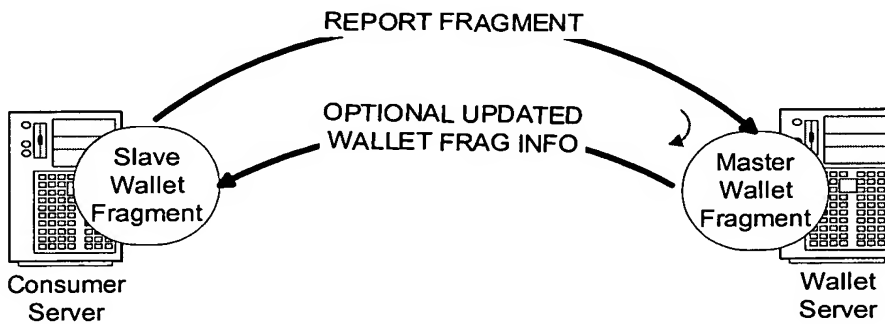


Figure 50F

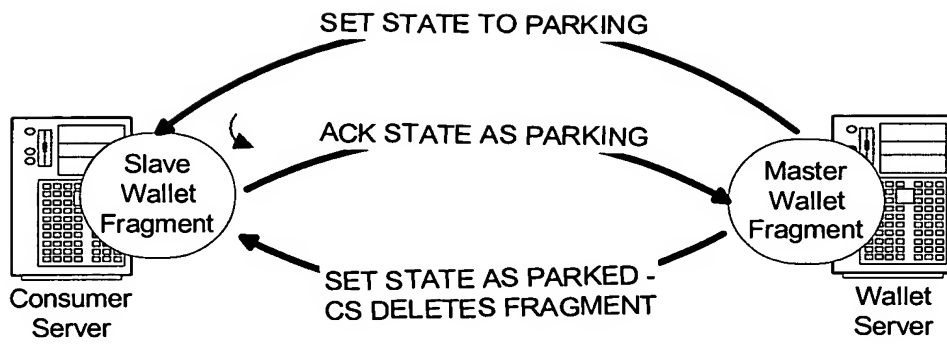


Figure 50G



Figure 50H

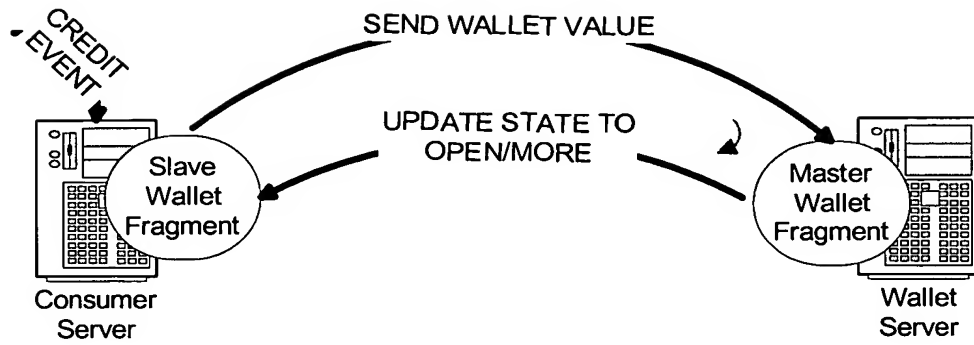


Figure 50I

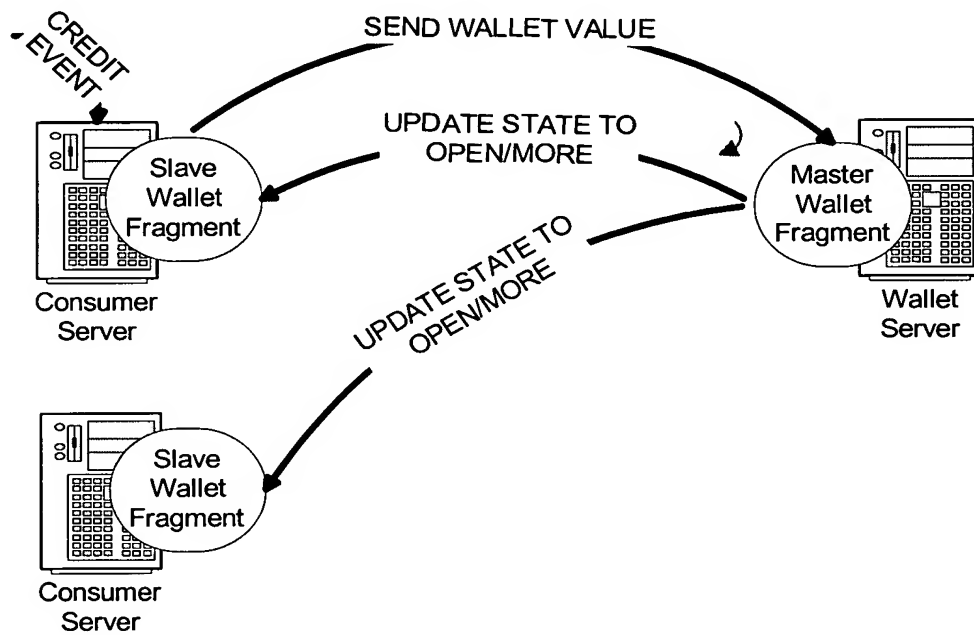


Figure 50J

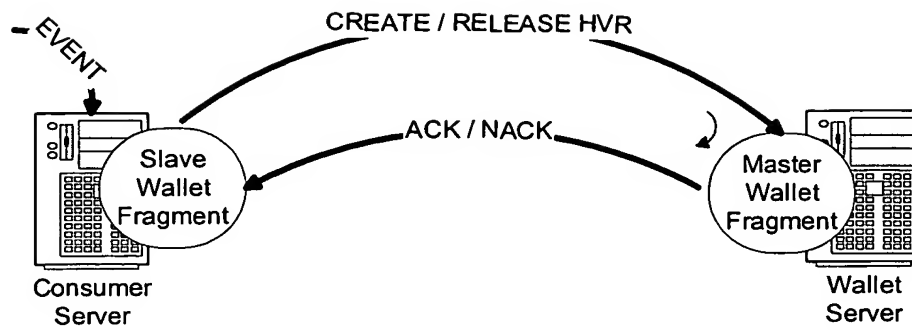


Figure 50K

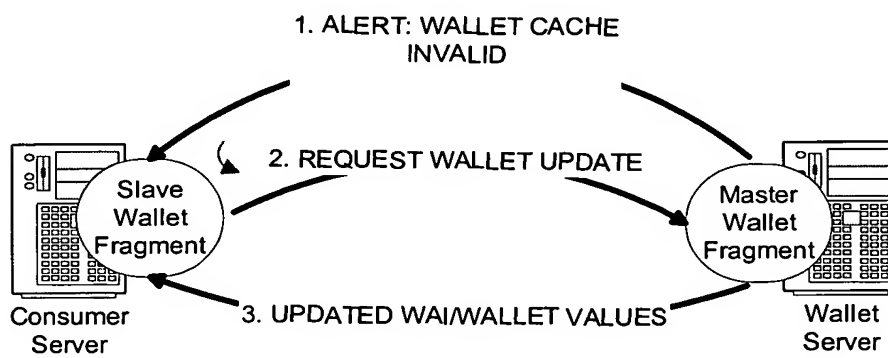


Figure 50L

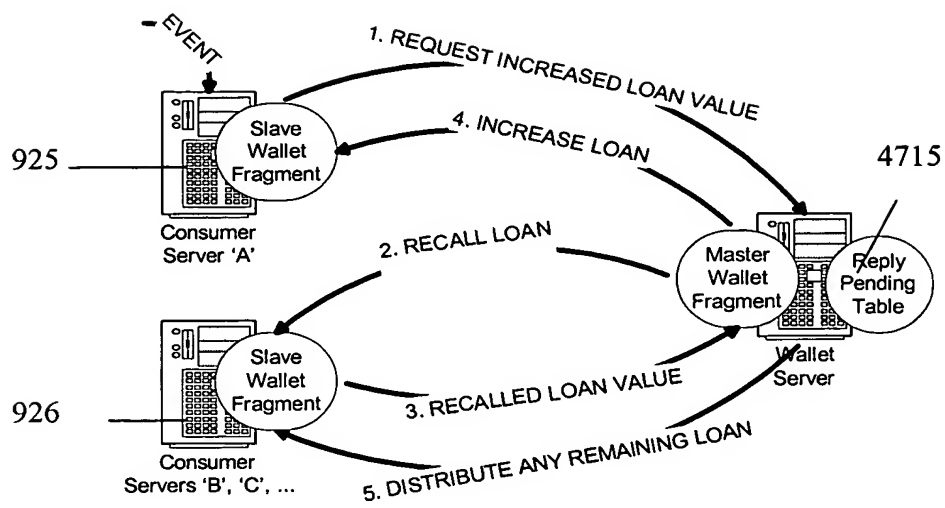


Figure 51

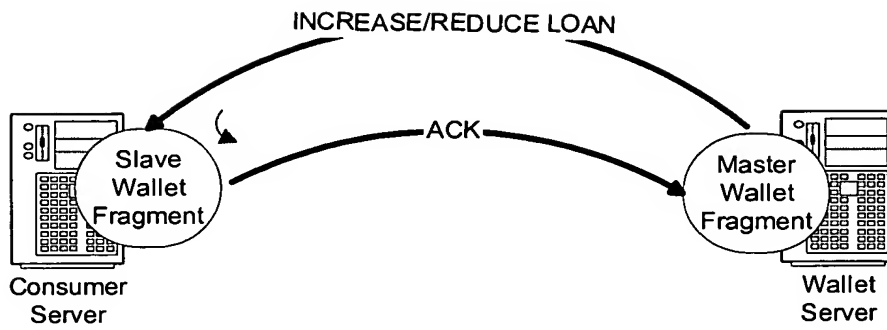


Figure 52

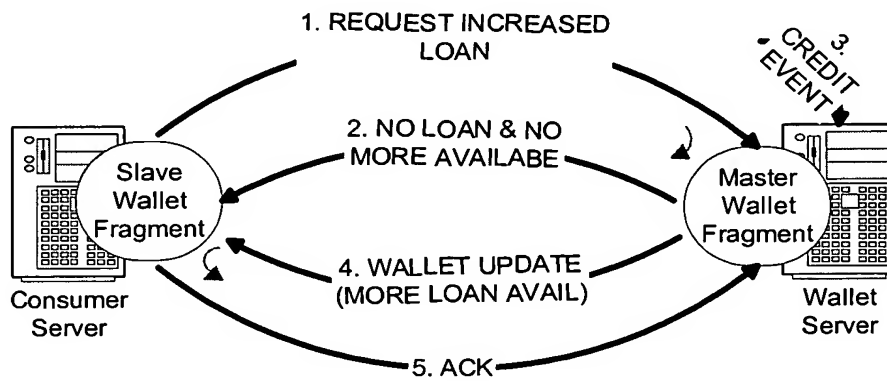


Figure 53

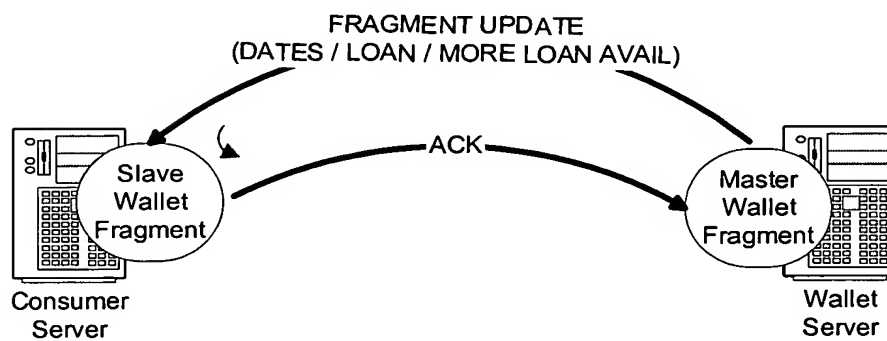


Figure 54

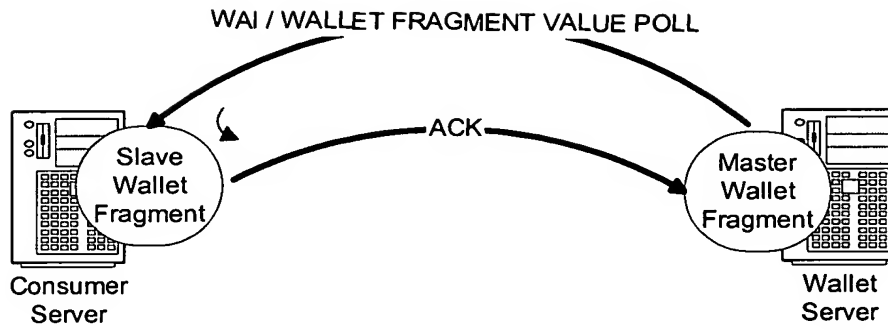


Figure 55

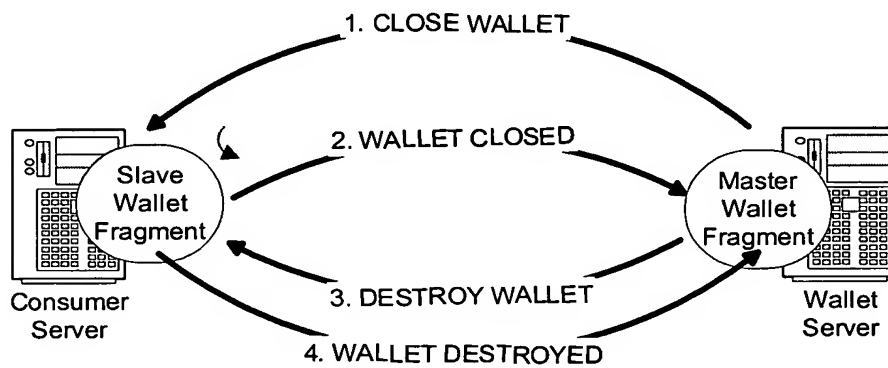


Figure 56

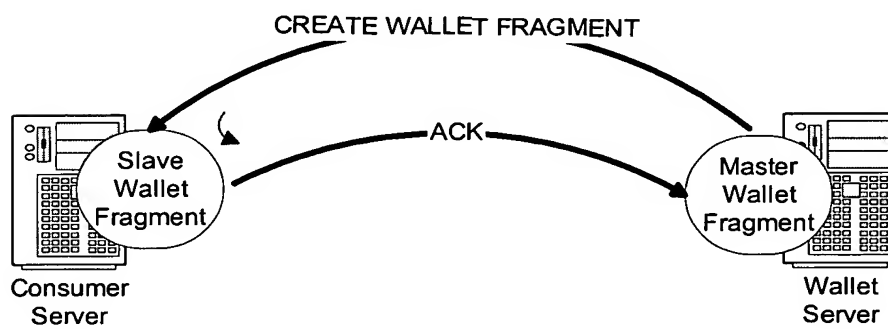


Figure 57

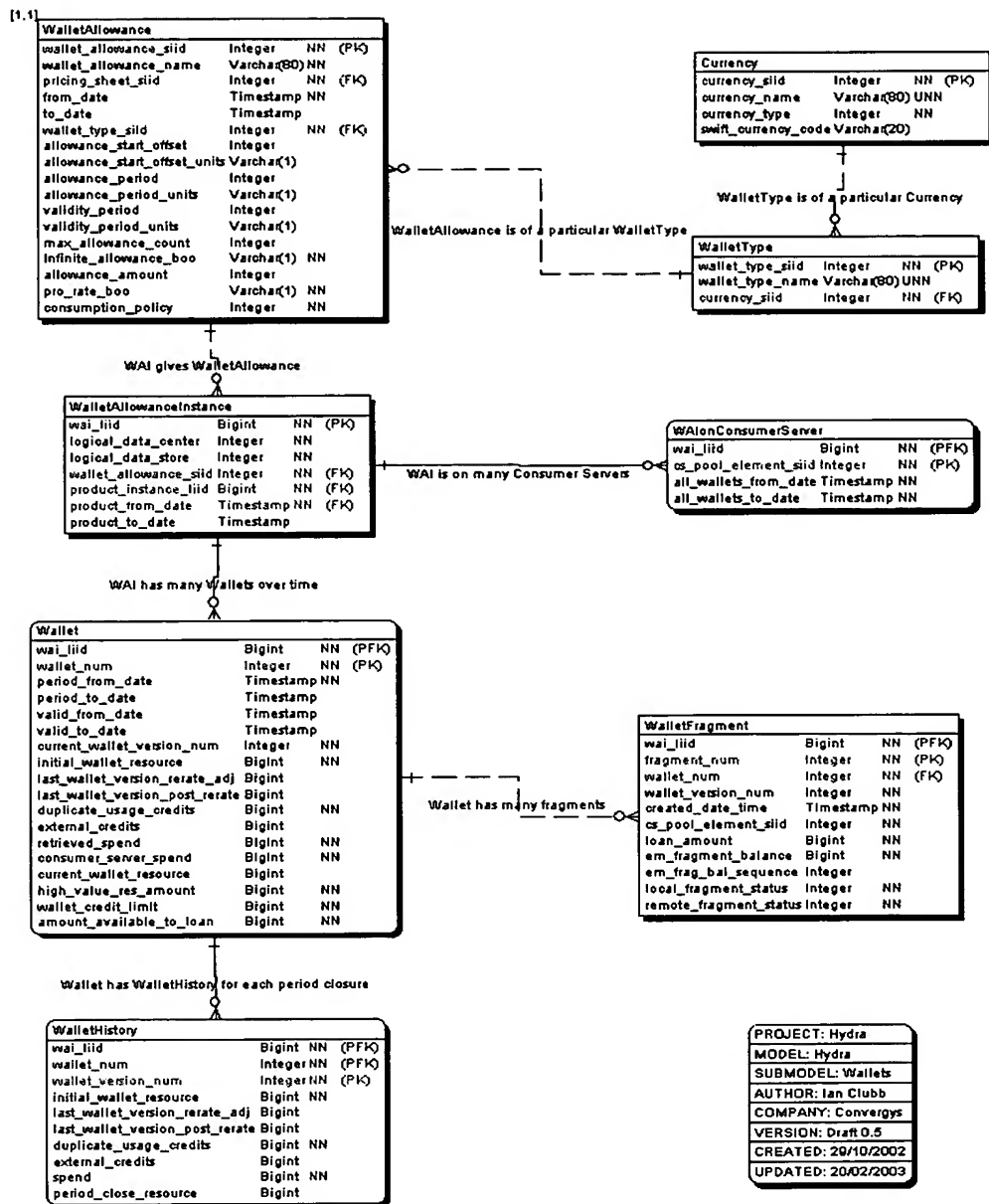


Figure 58

Hydra: Near Real Time Processing Detail

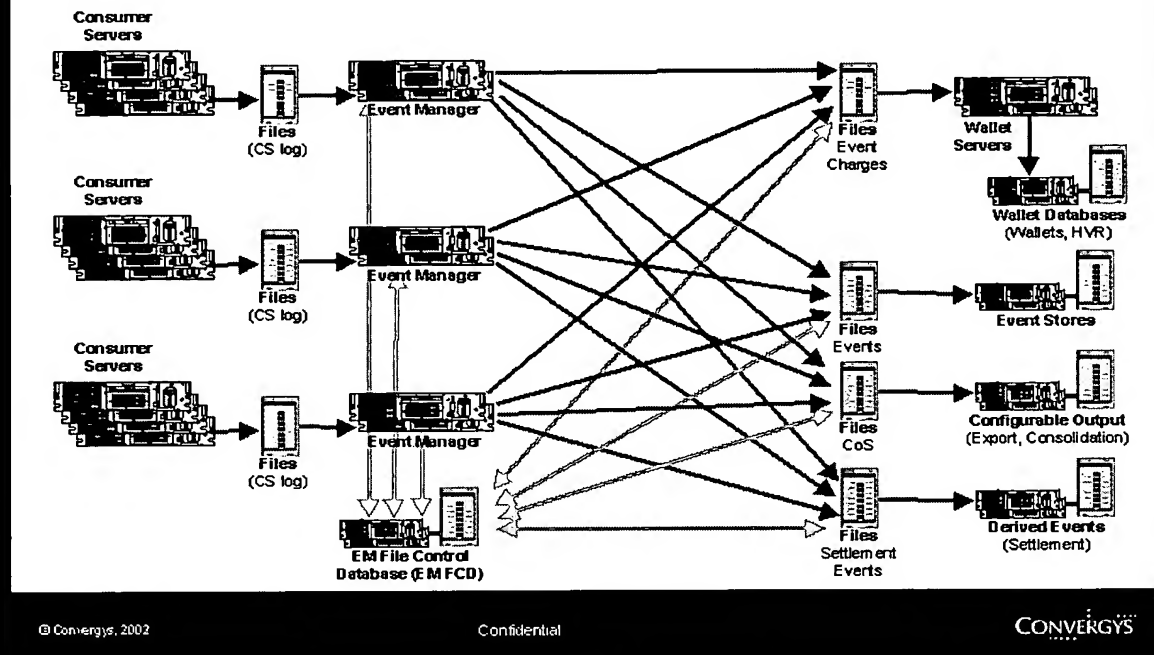
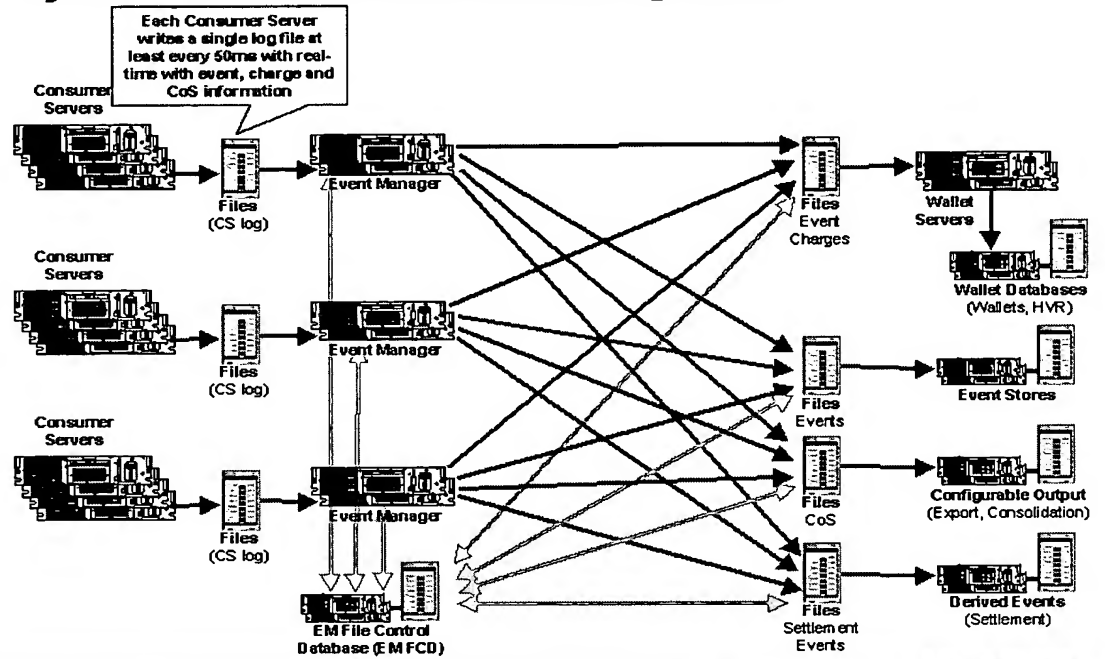


Figure 59

Hydra: Near Real Time Processing Detail



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Figure 60

Hydra: Near Real Time Processing Detail

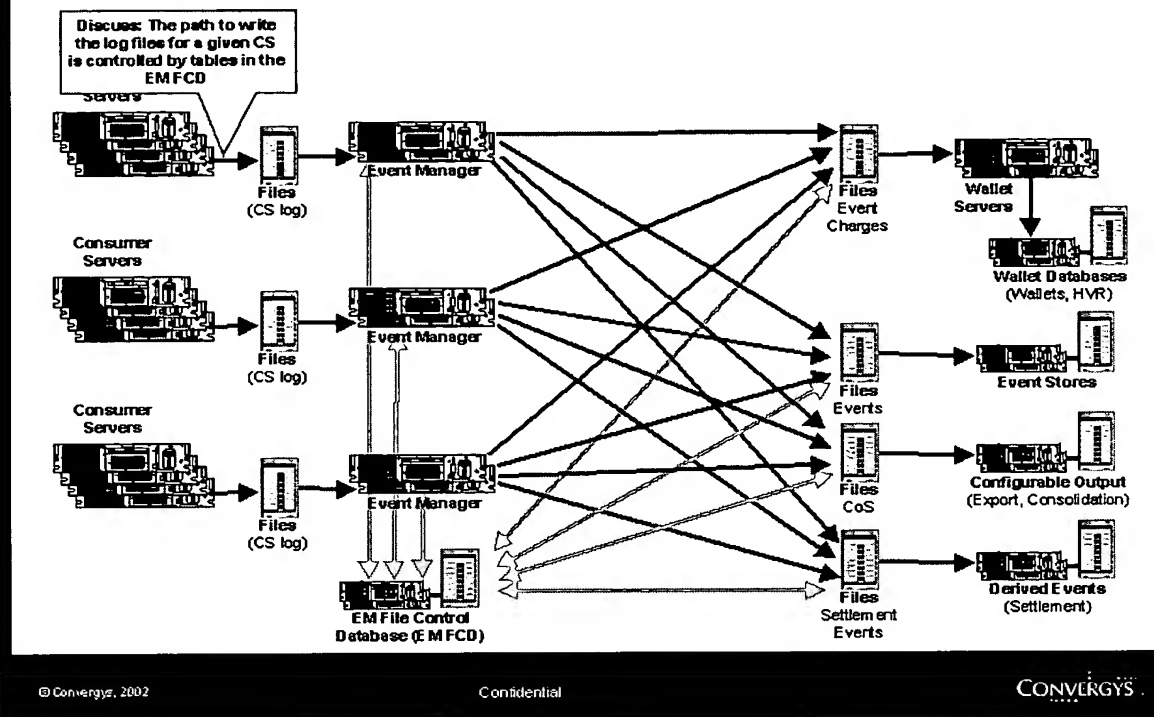


Figure 61

Hydra: Near Real Time Processing Detail

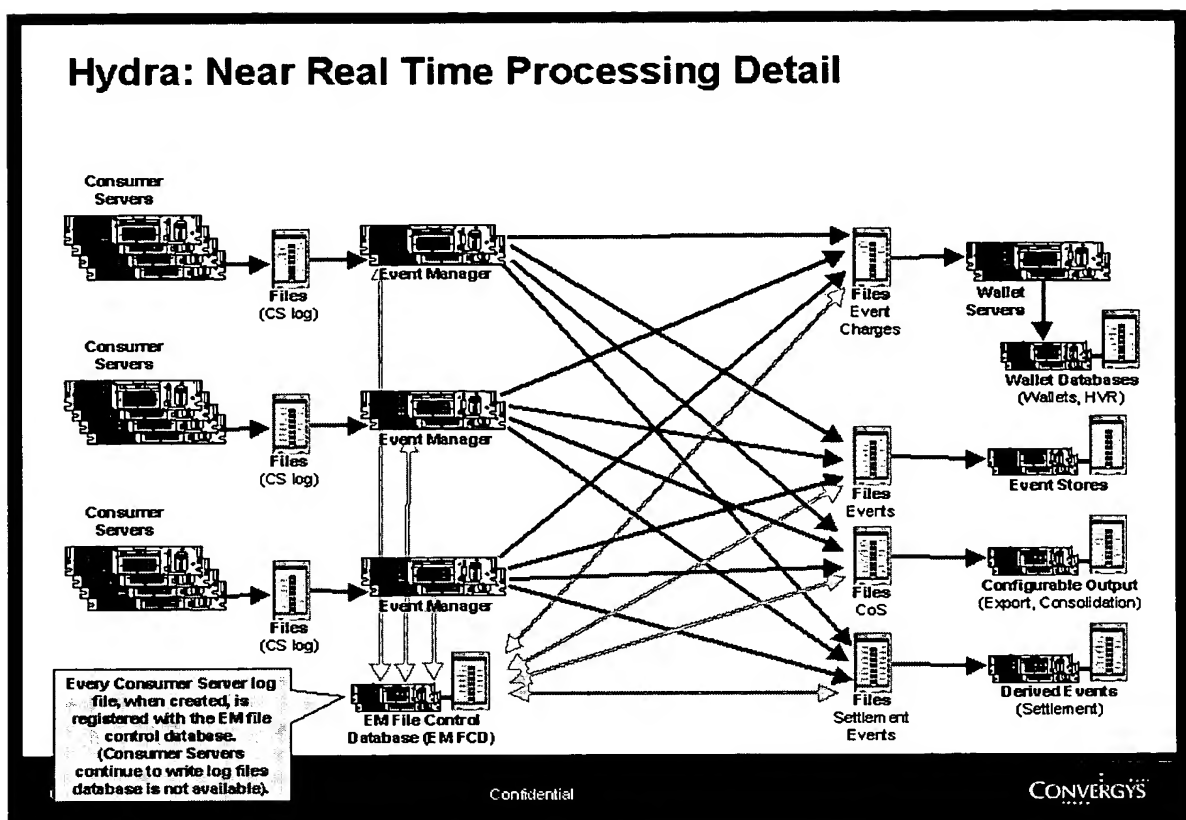
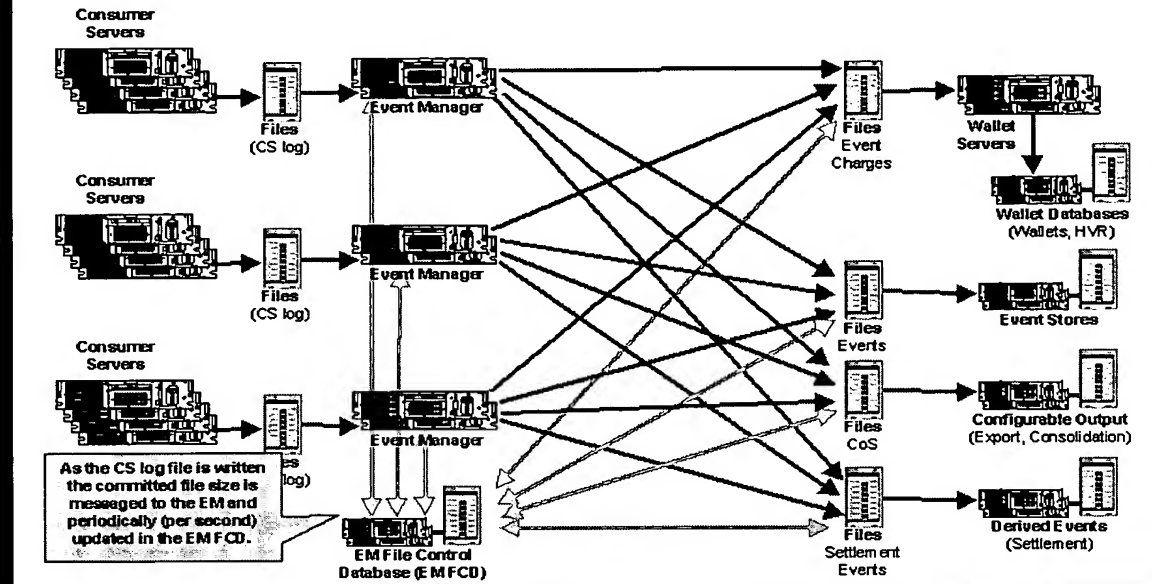


Figure 62

Hydra: Near Real Time Processing Detail



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Figure 63

Hydra: Near Real Time Processing Detail

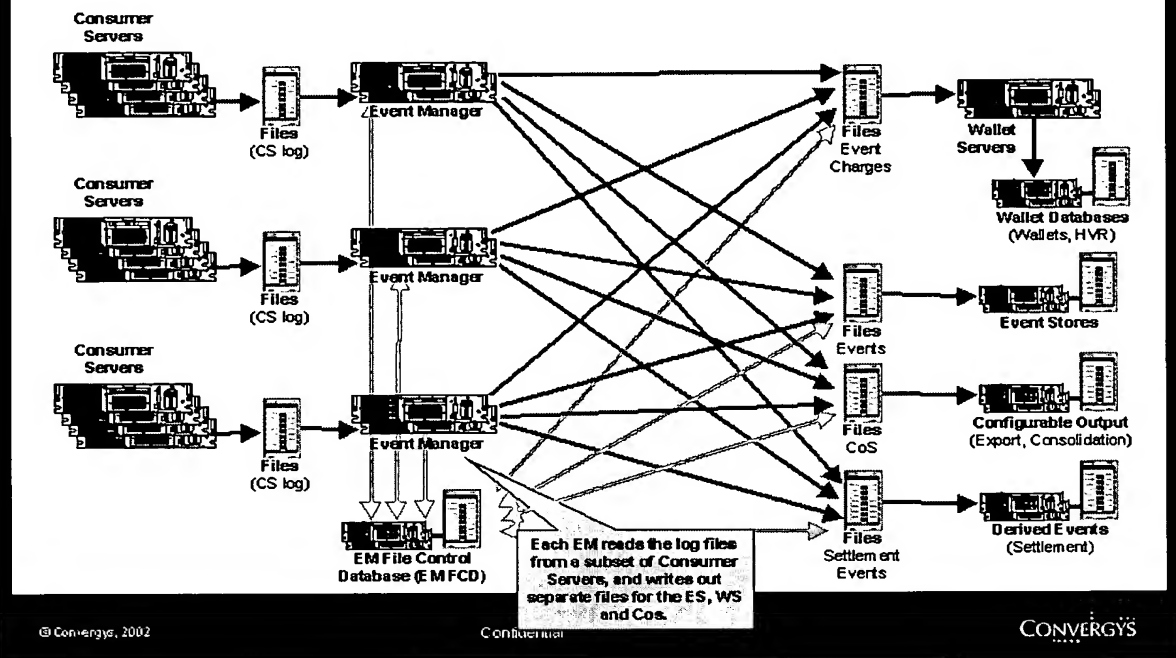


Figure 64

Hydra: Near Real Time Processing Detail

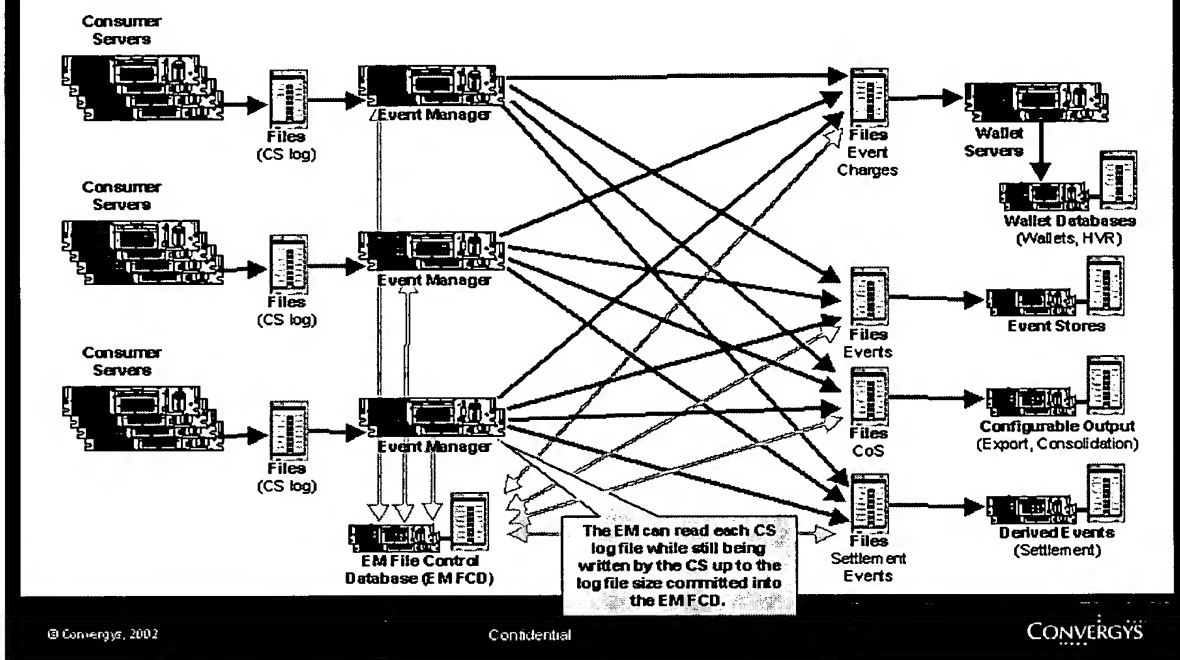


Figure 65

Hydra: Near Real Time Processing Detail

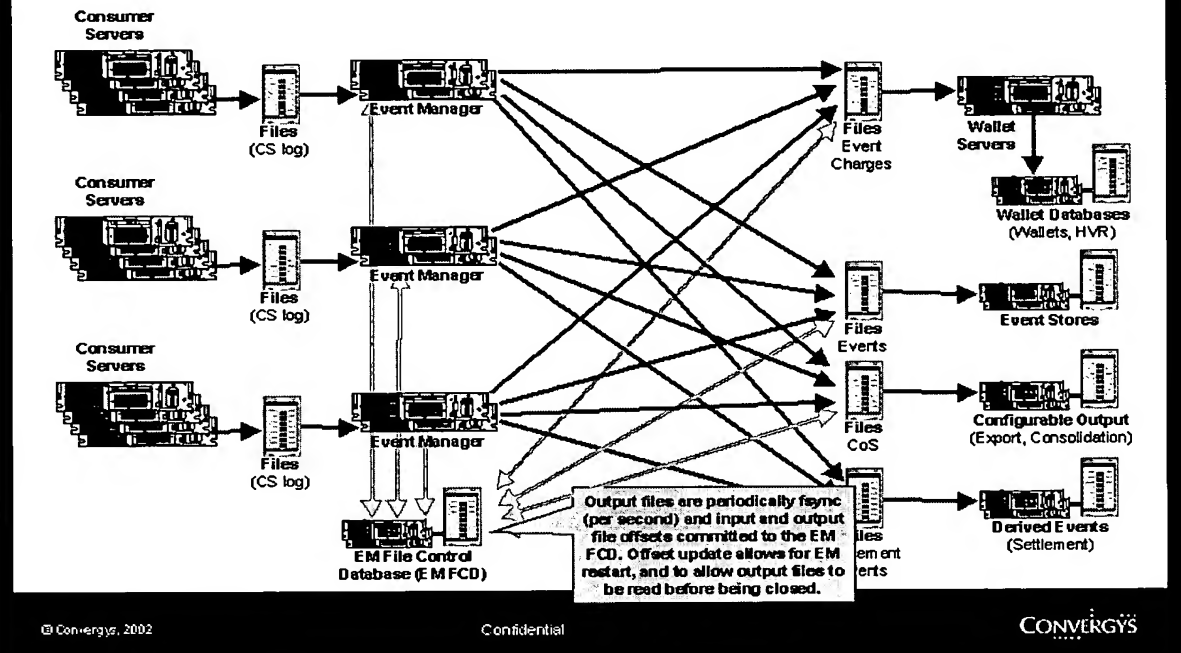
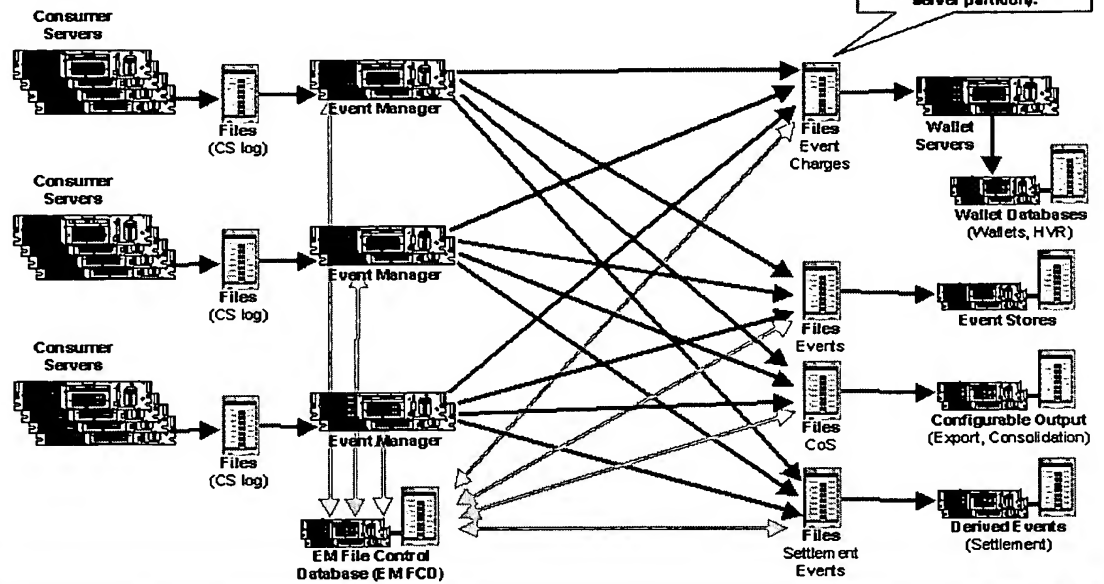


Figure 66

Hydra: Near Real Time Processing Detail



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Figure 67

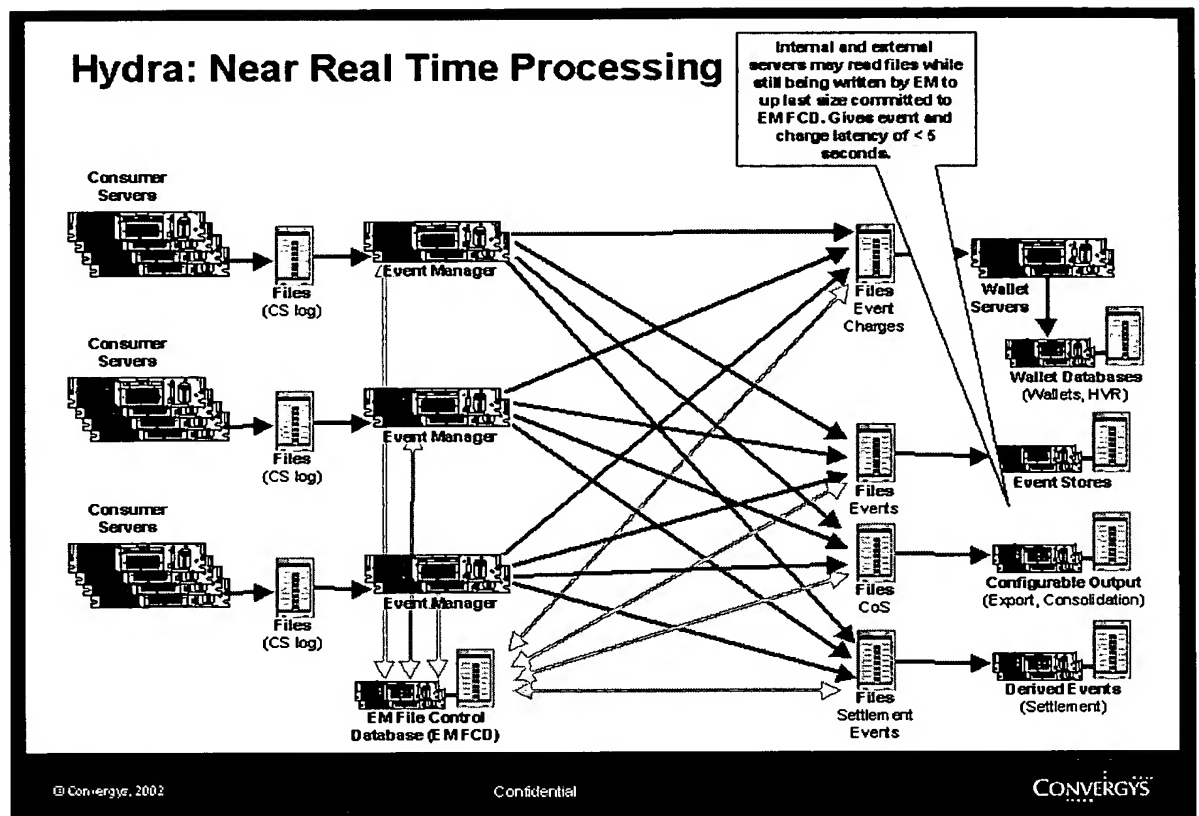


Figure 68

Hydra: Near Real Time Processing Detail

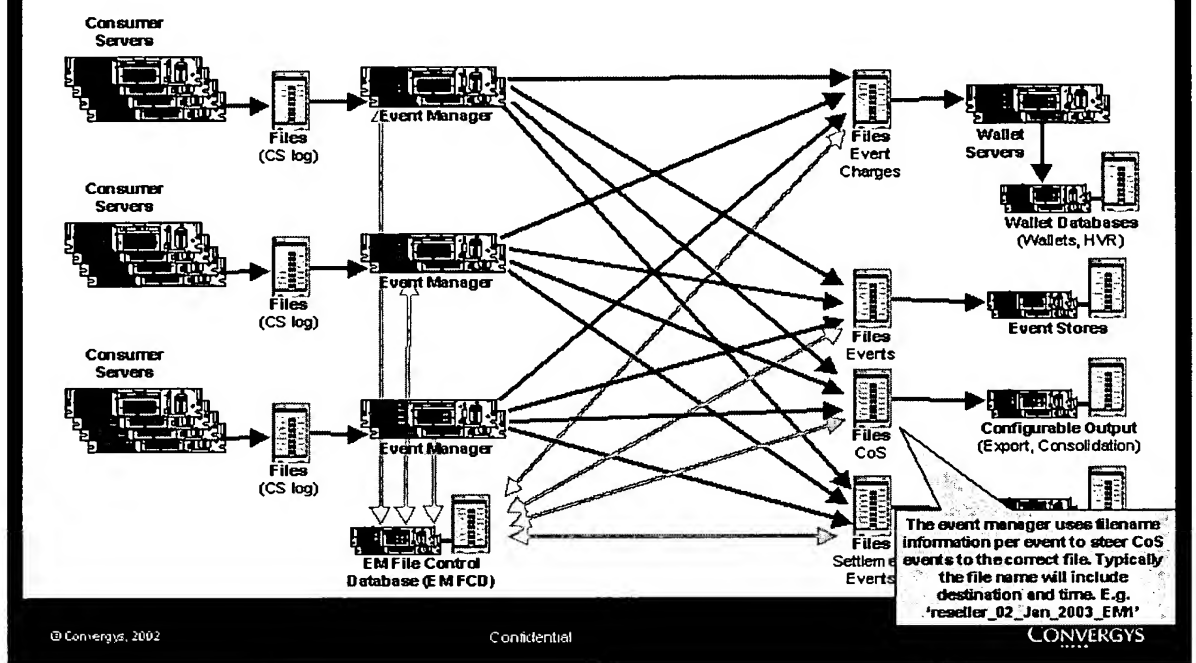
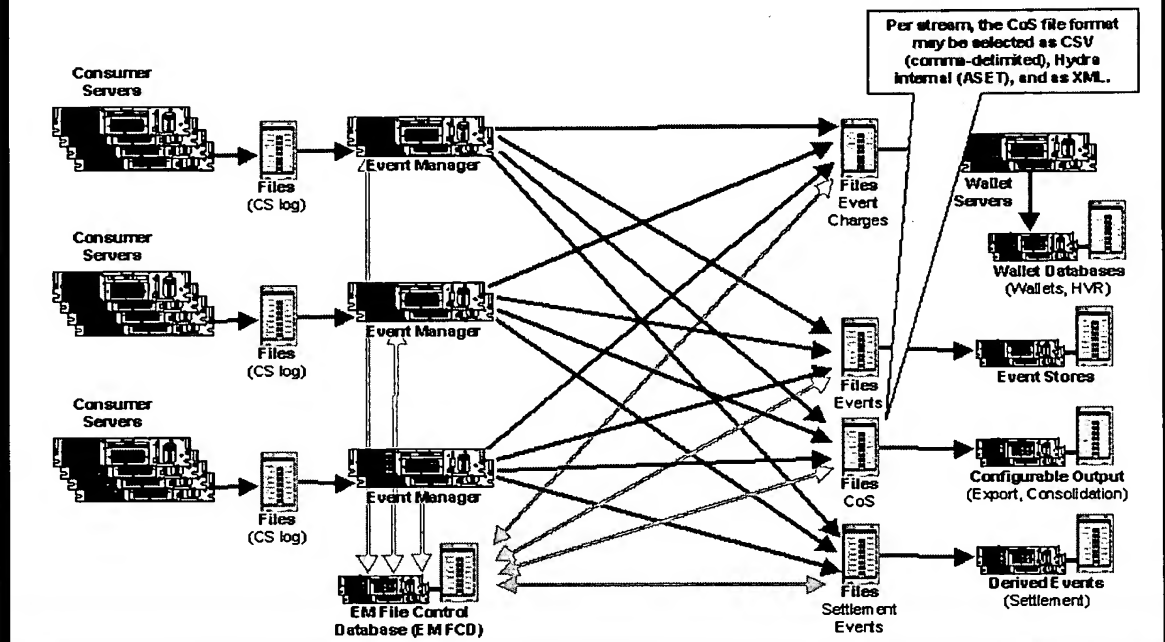


Figure 69

Hydra: Near Real Time Processing Detail



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Figure 70

Hydra: Near Real Time Processing Detail

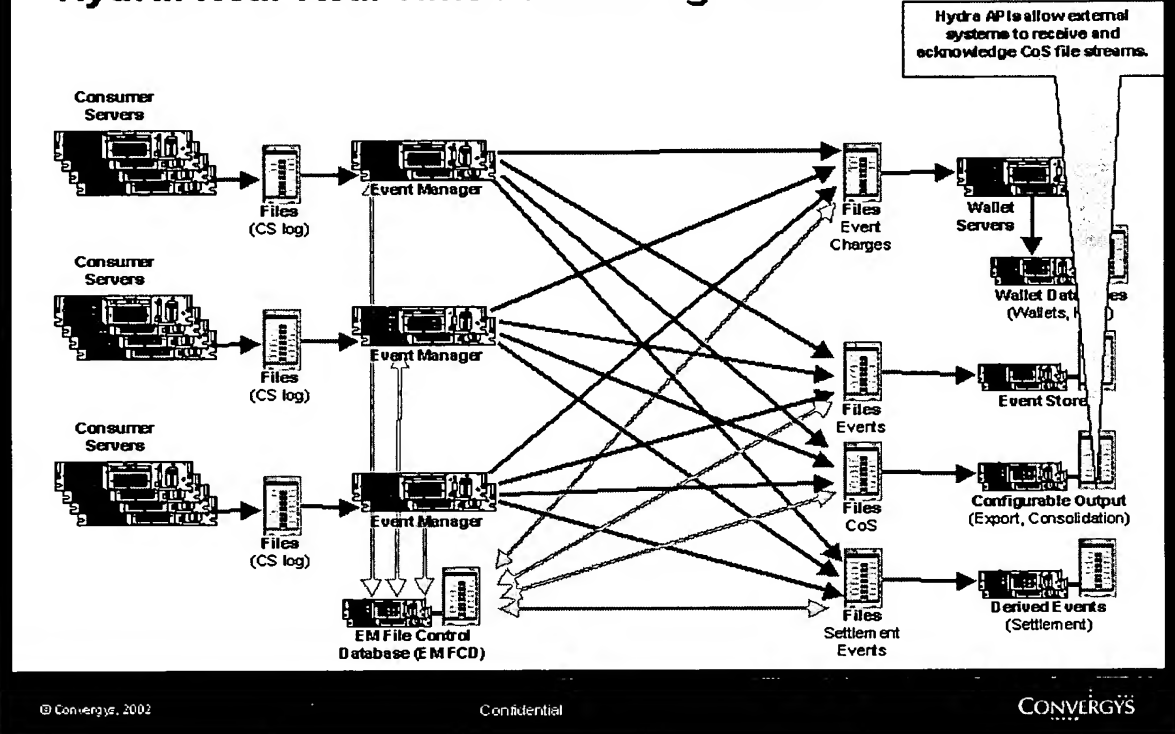


Figure 71

Hydra: Near Real Time Processing Detail

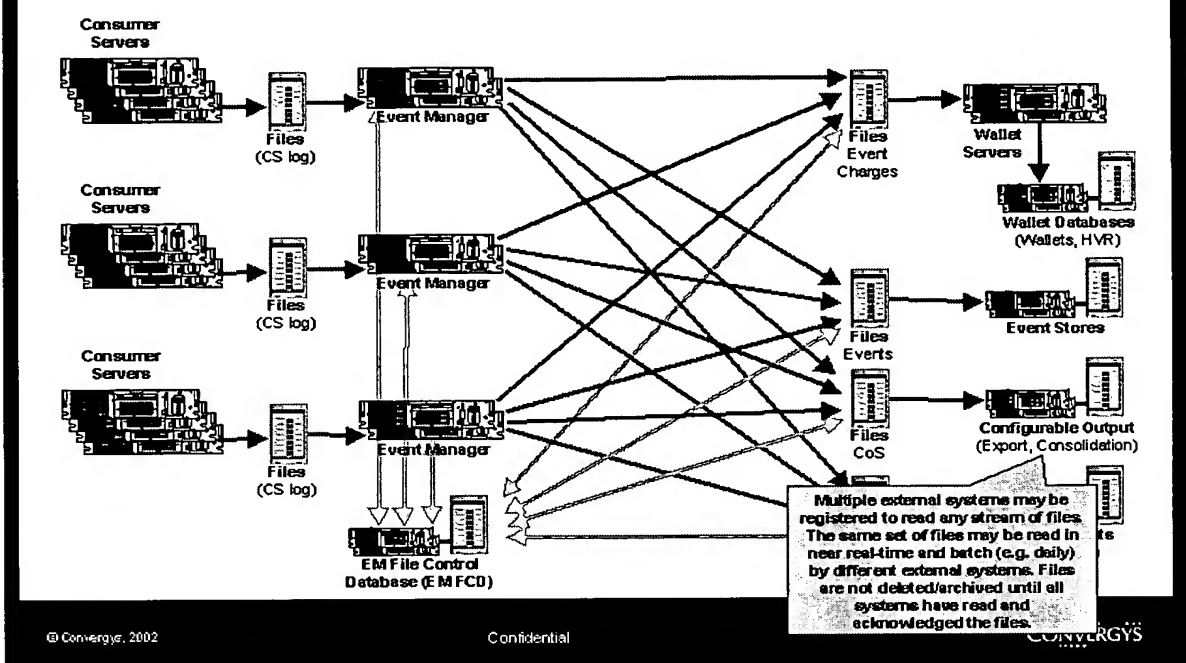


Figure 72

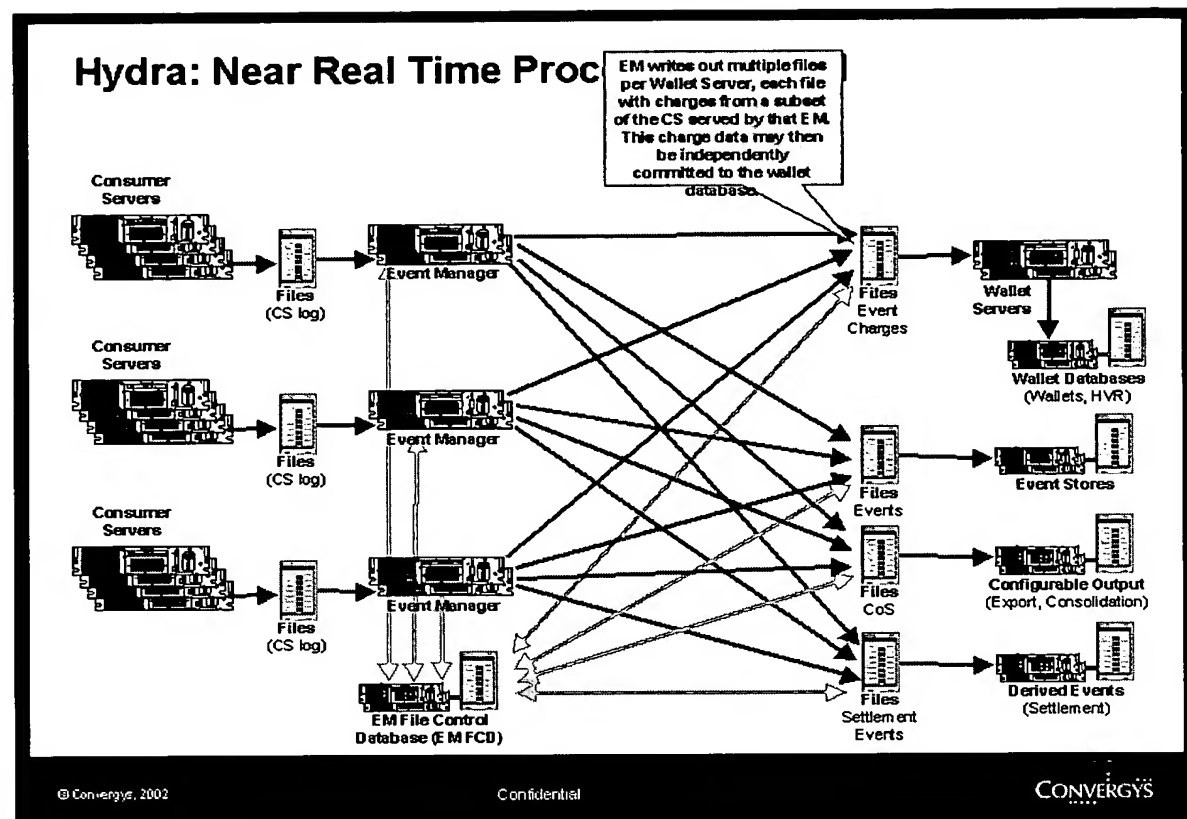


Figure 73

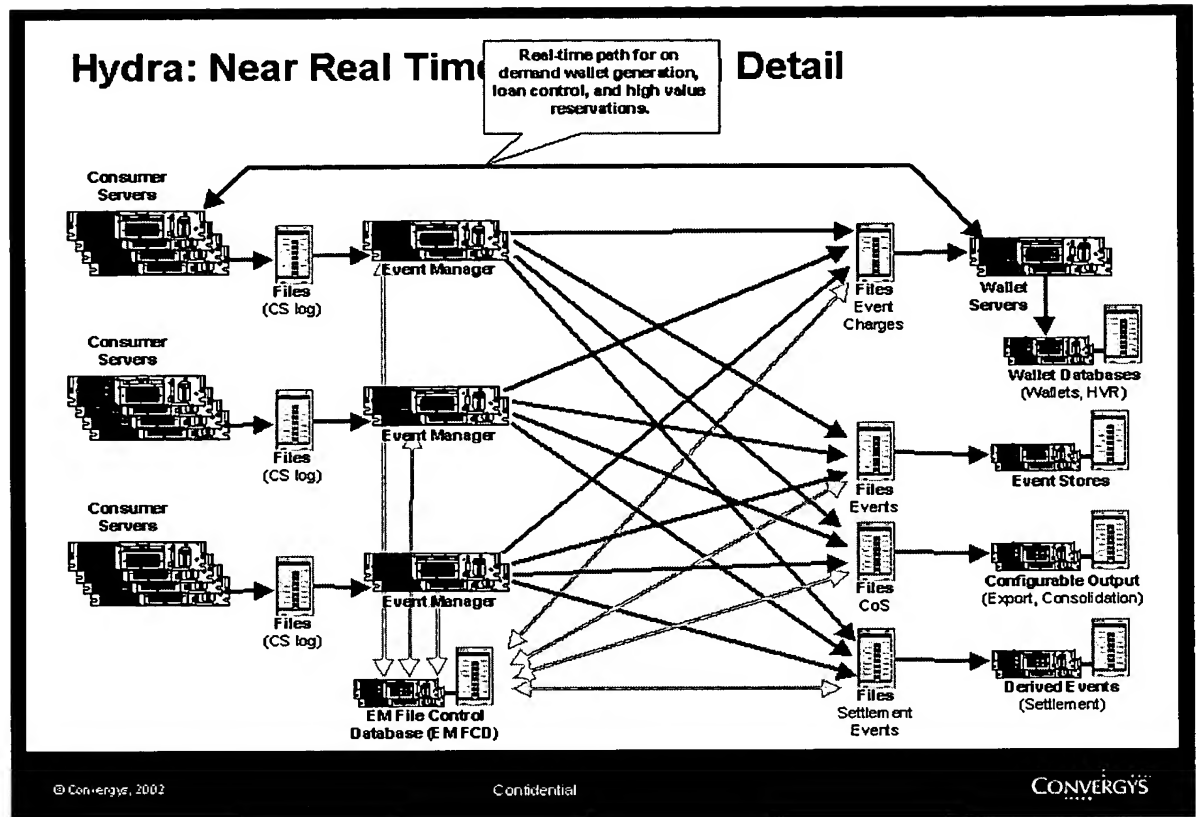
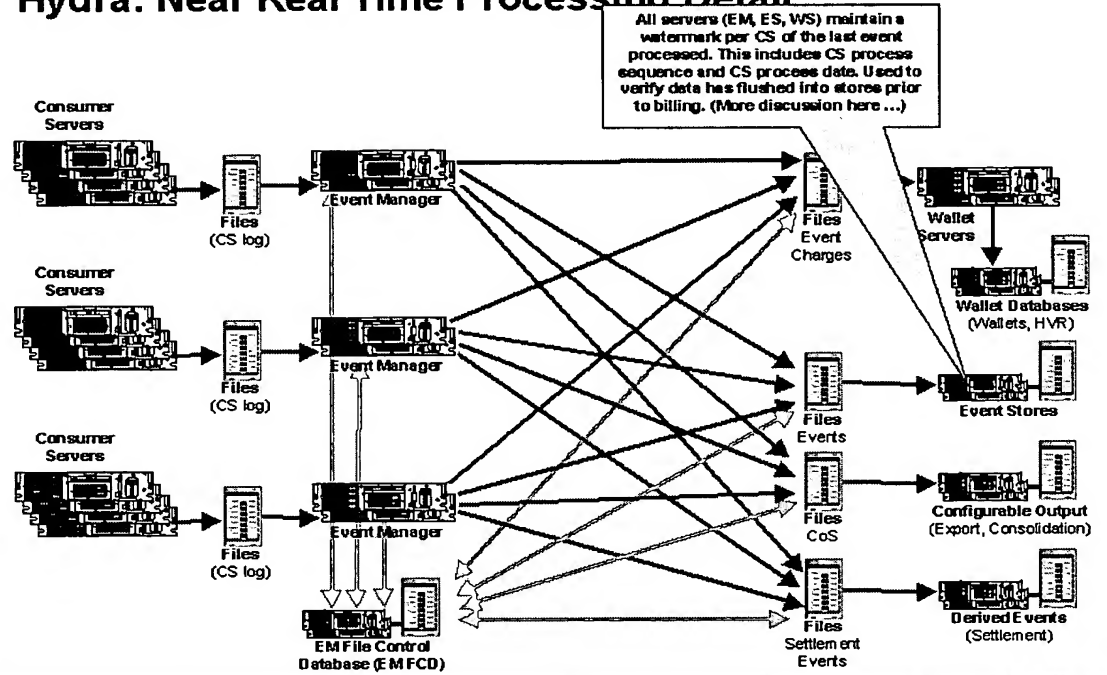


Figure 74

Hydra: Near Real Time Processing Detail



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Figure 75